BN thermic

call the heater people

2022

BN *thermic*

Product Guide 2022

M ▶ UNDERFLOOR HEATING MATS

Function	An economic means of heating a room and providing a luxurious warm floor
Applications	Any room including bathrooms and wet rooms
	Ceramic, porcelain, marble, slate or stone floors
Features	Lifetime warranty
	Twin core cable assembled onto a fibreglass web
	3m power lead
	Continuous earth protection foil and fixing tape
	The mat can be cut and manipulated to suit room dimensions (typically select a mat approximately 10% smaller than the free floor area)
	Wide choice of thermostats (see pages 10-11)

Standard Output Mats (150W/m²)

Suitable as a main source of heating in most rooms

Model	Heated Area (m²)	Mat Size (m)	kW	List Price
M150-005	0.5	1.0 x 0.5	0.07	£56.00
M150-010	1.0	2.0 x 0.5	0.15	£63.00
M150-015	1.5	3.0 x 0.5	0.22	£82.00
M150-020	2.0	4.0 x 0.5	0.30	£110.00
M150-025	2.5	5.0 x 0.5	0.37	£118.00
M150-030	3.0	6.0 x 0.5	0.45	£139.00
M150-035	3.5	7.0 x 0.5	0.52	£158.00
M150-040	4.0	8.0 x 0.5	0.60	£188.00
M150-045	4.5	9.0 x 0.5	0.67	£198.00
M150-050	5.0	10 x 0.5	0.75	£216.00
M150-060	6.0	12 x 0.5	0.90	£257.00
M150-070	7.0	14 x 0.5	1.05	£280.00
M150-080	8.0	16 x 0.5	1.20	£298.00
M150-090	9.0	18 x 0.5	1.35	£326.00
M150-100	10	20 x 0.5	1.50	£353.00
M150-110	11	22 x 0.5	1.65	£403.00
M150-120	12	24 x 0.5	1.80	£439.00
M150-140	14	28 x 0.5	2.10	£485.00
M150-160	16	32 x 0.5	2.40	£556.00

High Output Mats (200W/m²)

Recommended for conservatories

Model	Heated Area (m²)	Mat Size (m)	kW	List Price
M200-010	1.0	2.0 x 0.5	0.20	£69.00
M200-015	1.5	3.0 x 0.5	0.30	£92.00
M200-020	2.0	4.0 x 0.5	0.40	£107.00
M200-030	3.0	6.0 x 0.5	0.60	£127.00
M200-040	4.0	8.0 x 0.5	0.80	£174.00
M200-050	5.0	10 x 0.5	1.00	£230.00
M200-060	6.0	12 x 0.5	1.20	£281.00
M200-070	7.0	14 x 0.5	1.40	£323.00
M200-080	8.0	16 x 0.5	1.60	£394.00
M200-090	9.0	18 x 0.5	1.80	£428.00
M200-100	10	20 x 0.5	2.00	£529.00

Insulation Boards

Limits downward heat loss

Model	Dimensions (mm)	Area Covered (m²)	List Price
F-Board-6	1200 x 600 x 6	0.72	£22.00
F-Board-10	1200 x 600 x 10	0.72	£24.00

Repair Kit

Emergency use

Model	Description	List Price
EHM-R-Kit	Cable Repair Kit	£36.00

EHC UNDERFLOOR HEATING CABLE

Function   An economic means of heating a room and providing a luxurious warm floor

Applications   Any room including bathrooms and wet rooms
Ceramic, porcelain, marble, slate or stone floors
Ideally suited to smaller and irregularly shaped rooms

Features   Lifetime warranty
Twin core cable
3m power lead
Continuous earth protection foil and fixing tape
Wide choice of thermostats (see pages 10-11)

Heating Cables

Model	kW	Heated Area (m²)	Cable Length (m)	List Price
EHC-012	0.12	0.7 – 1.0	11	£61.00
EHC-020	0.20	1.1 – 1.5	19	£73.00
EHC-025	0.25	1.6 – 2.0	24	£82.00
EHC-032	0.32	2.1 – 2.5	32	£96.00
EHC-040	0.40	2.6 – 2.9	37	£103.00
EHC-045	0.45	3.0 – 3.3	46	£117.00
EHC-052	0.52	3.4 – 3.8	50	£121.00
EHC-060	0.60	3.9 – 4.5	64	£151.00
EHC-075	0.75	4.6 – 6.0	76	£163.00
EHC-095	0.95	6.1 – 7.5	87	£196.00
EHC-110	1.10	7.6 – 8.5	115	£237.00
EHC-130	1.30	8.6 – 10.0	131	£273.00
EHC-170	1.70	10.1 – 13.0	159	£338.00
EHC-200	2.00	13.1 – 15.5	194	£439.00

Insulation Boards
Limits downward heat loss

Model	Dimensions (mm)	Area Covered (m²)	List Price
F-Board-6	1200 x 600 x 6	0.72	£22.00
F-Board-10	1200 x 600 x 10	0.72	£24.00

Repair Kit
Emergency use

Model	Description	List Price
EHM-R-Kit	Cable Repair Kit	£36.00

F ▶ UNDERFLOOR HEATING FOIL MATS

|	
Function	Underfloor heating for laminate and engineered wood floors
Applications	Any room including bathrooms
Features	10 year warranty
	Installed without adhesives or compounds
	Twin core cable sandwiched between layers of aluminium ensuring excellent heat distribution
	3m power lead
	The mat can be cut and manipulated to suit room dimensions (typically select a mat approximately 10% smaller than the free floor area)
	I-Board insulation provides underlay and limits downward heat loss
	Wide choice of thermostats (see pages 10-11)

Foil Heating Mats

Model	Heated Area (m²)	Mat Size (m)	kW	List Price
F140-010	1.0	2.0 x 0.5	0.14	£80.00
F140-015	1.5	3.0 x 0.5	0.21	£110.00
F140-020	2.0	4.0 x 0.5	0.28	£130.00
F140-030	3.0	6.0 x 0.5	0.42	£173.00
F140-040	4.0	8.0 x 0.5	0.56	£228.00
F140-050	5.0	10 x 0.5	0.70	£265.00
F140-060	6.0	12 x 0.5	0.84	£308.00
F140-070	7.0	14 x 0.5	0.98	£368.00
F140-080	8.0	16 x 0.5	1.12	£397.00
F140-090	9.0	18 x 0.5	1.26	£454.00
F140-100	10	20 x 0.5	1.40	£495.00
F140-120	12	24 x 0.5	1.68	£578.00
F140-140	14	28 x 0.5	1.96	£711.00

Insulation and Fixing Tape

Model	Description	Area Covered (m²)	List Price
I-Pack-6	Insulation/underlay 19-pack (6mm thick)	9.76	£39.00
I-Board-6	Insulation/undelay individual (6mm thick)	0.5	£5.00
LHT	Fixing tape for I-Board	10	£15.00
AL-50	Fixing tape for foil mat	10	£16.00

UNDERFLOOR HEATING THERMOSTATS
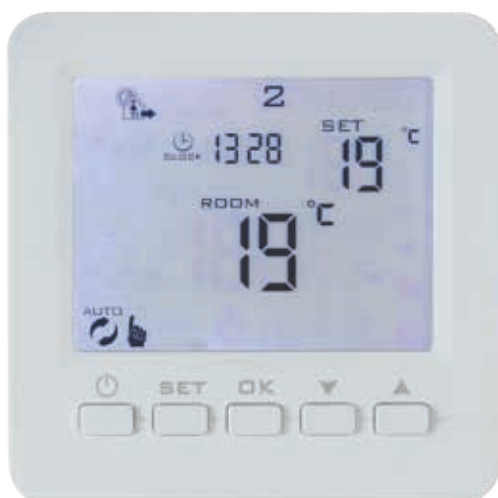
B16C

T16CW

T16CB

T16CS

W16CW


W16CB

Function	Accurate electronic temperature control for electric underfloor heating
Applications	Suitable for use with all BN Thermic underfloor heating systems
Features	16A switching
	Air/floor or floor only control
	Floor probe supplied as standard
	Free app for Wi-Fi models

Thermostats

Model	Description	Details	Price
B16C	Basic programmable thermostat	page 110	£61.00
W16CW	Touch screen/Wi-Fi thermostat (white)	page 111	£120.00
W16CB	Touch screen/Wi-Fi thermostat (black)	page 111	£120.00
T16CW	Touch screen thermostat (white)	page 110	£158.00
T16CB	Touch screen thermostat (black)	page 110	£169.00
T16CS	Touch screen thermostat (silver)	page 110	£169.00
T16R	Optional IP55 air temperature sensor for T16C thermostats (ideal for bathrooms)	page 110	£39.00
RB26	Relay box (26A) enables thermostat to switch up to 6kW	page 128	£86.00

MD ▸ MIRROR DEMISTER PADS
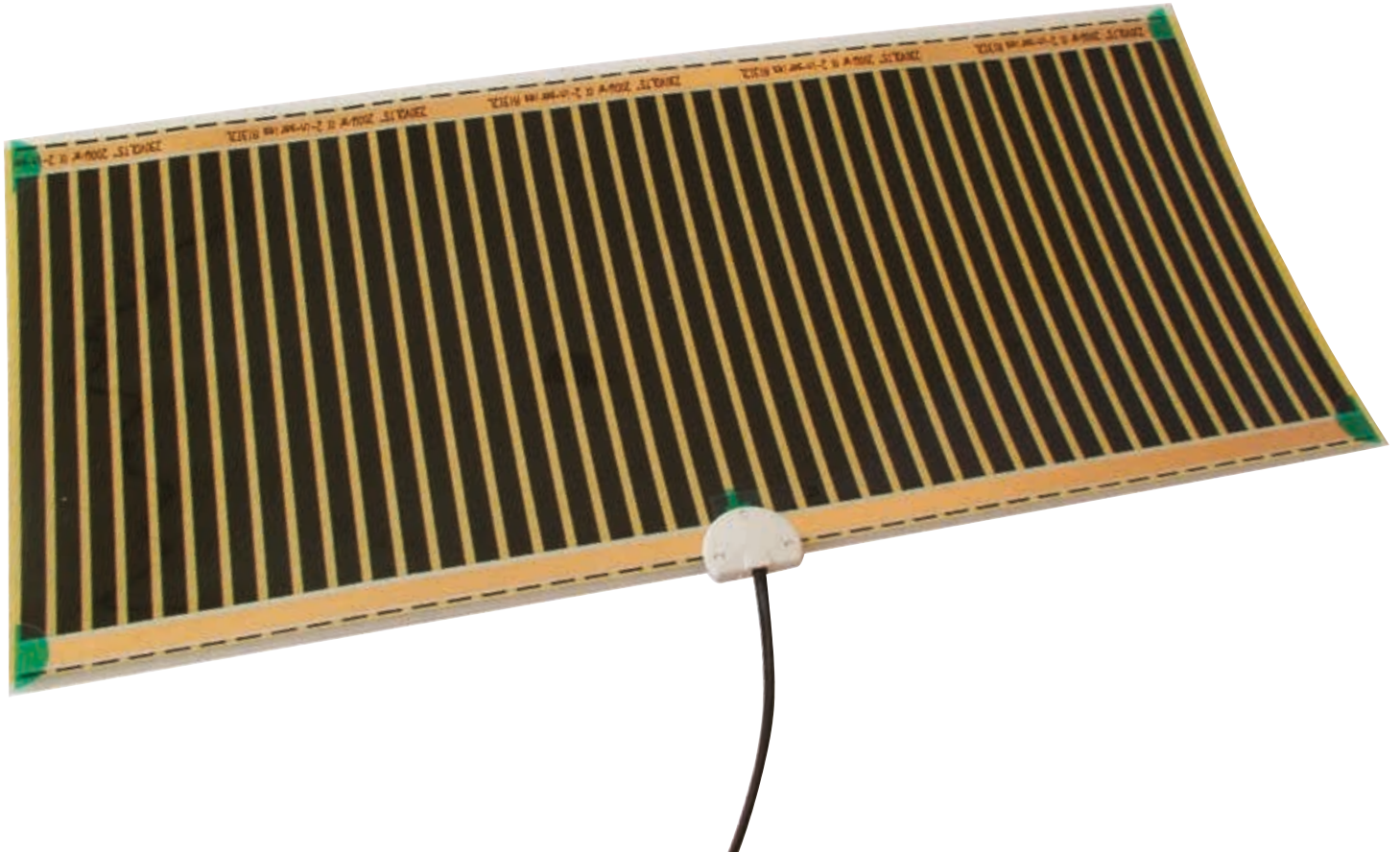
Function   Provides a mist free mirror

Application   Bathrooms – domestic and commercial

Features   100% effective in a little over 2 minutes
Protects an area approximately 20% larger than the pad itself
Peel-off adhesive backing for quick and easy installation
1m long power lead
Multiple pads can be used on one mirror
230V supply
Class II IP44
Suitable for bathroom zones 2 and 3

Demister Pads – 300mm wide

Model	Watts	Length (mm)	List Price
MD3-29	16	290	£49.00
MD3-49	27	490	£56.00
MD3-73	40	730	£64.00
MD3-97	54	970	£72.00
MD3-125	69	1250	£83.00
MD3-149	83	1490	£87.00

Demister Pads – 500mm wide

Model	Watts	Length (mm)	List Price
MD5-29	27	290	£53.00
MD5-49	46	490	£63.00
MD5-73	69	730	£71.00
MD5-97	92	970	£83.00
MD5-125	119	1250	£95.00
MD5-149	142	1490	£104.00

Demister Pads – 700mm wide

Model	Watts	Length (mm)	List Price
MD7-29	38	290	£57.00
MD7-49	65	490	£68.00
MD7-73	98	730	£79.00
MD7-97	131	970	£93.00
MD7-125	169	1250	£110.00
MD7-149	201	1490	£121.00

CRJ SELF-REGULATING HEAT CABLE

Function
Prevents water from freezing in metal and plastic pipes
Maintains temperature in pipes for a wide variety of industrial processes

Applications
Stables and farms
Sprinkler systems
Industrial processes

Features
Supplied by the metre – order as much or as little as required
Power consumption decreases as pipe temperature increases
Can be cut to length on site
Full length earth braid and thermoplastic outer jacket
Installed onto pipe under insulation
Cables with EX suffix can be used in hazardous areas as well as safe areas

Cables

Model	W/m	Voltage	Maximum Exposure Temperature (°C)		Max Circuit Length	List Price/m (under 50m)	List Price/m (50m+)
			On	Off			
CRJM-11	11	230	65	85	128m	£14.00	£13.00
CRJM-17	17	230	65	85	102m	£15.00	£14.00
CRJ-25EX	25	230	85	85	120m	£24.00	£23.00
CRJ-40EX	40	230	85	85	94m	£25.00	£24.00
EX models: Zones 1, 2, 21 & 22 Groups IIC (gas) III (dust) as well as non-hazardous areas							

Accessories

	Model	Description	List Price
	CRJ-T1	Termination Kit (one per circuit) uses shrink on material – suitable for CRJ and CRJM but not for use when ATEX approval required. Prepares cable for electrical connection and seals the far end.	£20.00
	THK	Termination Kit (one per circuit) uses silicone – can be used when ATEX approval required or for general purpose applications (not for use with CRJM). Prepares cable for electrical connection and seals the far end.	£52.00
	THKM	Termination Kit (one per circuit) uses silicone – for use with CRJM. Prepares cable for electrical connection and seals the far end.	£52.00
	CRJ-S	Splice/T Kit – one for every splice or T joint. Not for use when ATEX approval required.	£21.00
	PF-T	Fixing Tape (33m x 19mm) for fixing cable to pipe – max temp 80°C	£4.00
	AL-50	Aluminium Tape (45m x 50mm) – for wrapping plastic pipes before installing cable or for fixing cable to pipe - max temp 110°C (note maximum exposure temp of cable)	£16.00
	PF-L	Caution Label (10 pack) apply to outside of insulation for safety	£8.50
	THB	Stainless Steel Bracket for THJ junction boxes or THT thermostats c/w stainless steel bands for fixing to pipe – for insulation up to 50mm thick and pipes up to 150mm diameter	£28.00
	THJ	Junction Box IP66 6-way terminal block 40A max	£45.00
	THJEX	ATEX Junction Box with 3 x M20 entries (one plugged) 6 way terminal block 16A max	£221.00
	THT	Capillary Thermostat 5 to 50°C IP66 (16A). See page 120.	£142.00
	THTEX	ATEX Capillary Thermostat 0 to 40°C IP66 (16A). See page 120.	£837.00
	FST2-EX	Frost Thermostat Outdoor Use IP66 (20A) – see page 113.	£173.00

Buswires.

Inherently temperature-safe
self-regulating matrix.

Thermoplastic
electrical insulation.

Continuous conductive
covering of metal braid.

Thermoplastic
outer jacket.
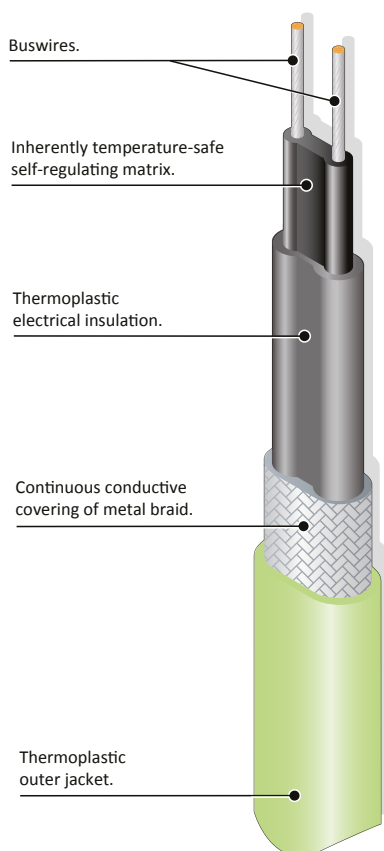
Pipe Freeze Protection – Selection Table

- Minimum ambient: -15℃
- Mineral wool insulation
- Cable installed in a straight line
- Frost thermostat always recommended

Pipe outside diameter	Insulation thickness (mm)		
	12	25	50
12mm	CRJM-11	CRJM-11	CRJM-11
25mm	CRJM-11	CRJM-11	CRJM-11
50mm	CRJM-17	CRJM-11	CRJM-11
75mm	CRJ-25EX	CRJM-17	CRJM-11
100mm	CRJ-40EX	CRJM-17	CRJM-11
150mm	-	CRJ-25EX	CRJM-17
200mm	-	CRJ-40EX	CRJM-17

Temperature Maintenance – Selection Table

- Minimum ambient temperature: -15℃
- Carbon steel pipe
- Mineral wool insulation
- Cable installed in a straight line
- Additional pipe temperature control required
- If requirements fall outside the limit of this table – call BN Thermic
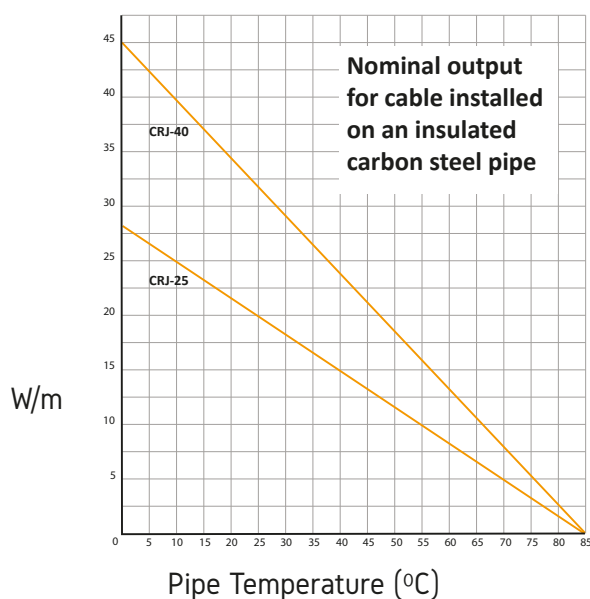
Pipe outside diameter	Pipe temperature	25mm insulation	50mm insulation
25mm	20°C	CRJ-25EX	CRJ-25EX
	30°C	CRJ-25EX	CRJ-25EX
	40°C	CRJ-40EX	CRJ-25EX
	50°C	-	CRJ-40EX
50mm	20°C	CRJ-25EX	CRJ-25EX
	30°C	CRJ-40EX	CRJ-25EX
	40°C	-	CRJ-40EX
	50°C	-	CRJ-40EX
75mm	20°C	CRJ-25EX	CRJ-25EX
	30°C	CRJ-40EX	CRJ-40EX
	40°C	-	CRJ-40EX
100mm	20°C	CRJ-40EX	CRJ-25EX
	30°C	-	CRJ-40EX
	40°C	-	CRJ-40EX

Nominal output for cable installed on an insulated carbon steel pipe

CRJ-40

CRJ-25

W/m

Pipe Temperature (°C)

Water Treatment Facility
Location: Multiple UK Locations
Installed: CRJM-17 Cable

GP · GUTTER PROTECTION HEAT CABLE

Function   Stops the accumulation of snow and ice
Prevents damage to gutters and buildings
Reduces danger from collapsing gutters and falling icicles

Application   Protects gutters for both domestic and commercial buildings

Features   Power consumption decreases as air temperature increases
Can be cut to length on site
Full length earth braid and UV resistant outer jacket

Selection   Use single run for gutters up to 120mm and an additional run for every
additional 120mm

Cable

Model	W/m	Volts	Max Circuit Length	List Price/m
GP-18	18	230	90m	£21.00

Accessories

	Model	Description	List Price
	THK	Termination Kit (one per circuit)	£52.00
	THJ	Junction Box IP66 (40A max)	£45.00
	GP-S	Spacers– set of 5 spacers with cable ties (also protects against sharp edges)	£38.00
	FST2-EX	Frost Thermostat Outdoor Use IP66 (20A) – see page 113	£173.00

PW PIPE FREEZE PROTECTION KITS

Function   Prevents water from freezing in metal and plastic pipes
Avoids the cost and inconvenience of burst pipes

Applications Domestic and commercial properties
Mobile homes

Features   Built-in thermostat
1.5m power lead with 3-pin plug

Selection   Installed onto pipe under insulation (20mm max)
Straight run protects pipes up to 50mm dia.
Can be wound in an evenly spaced helix (always use shortest suitable cable)

Pipe Freeze Protection Kits

Model	Watts	Volts	Heated Length (m)	List Price
PW-01	12	230	1	£92.00
PW-02	24	230	2	£100.00
PW-03	36	230	3	£110.00
PW-04	48	230	4	£116.00
PW-06	72	230	6	£126.00
PW-10	136	230	10	£127.00
PW-14	152	230	14	£128.00
PW-21	281	230	21	£142.00
PW-30	337	230	30	£162.00
PW-42	490	230	42	£188.00

Accessories

	Model	Description	List Price
	PF-L	Caution Label (10 pack)	£8.50
	PF-T	Fixing Tape (33m x 19mm)	£4.00
	AL-50	Aluminium Tape (45m x 50mm) for wrapping plastic pipes before cable installation	£16.00

WM HOT WATER MAINTENANCE CABLE

Function   Maintains temperature in hot water pipes
Ensures hot water is instantly available preventing waste
Eliminates need for return pipework and recirculating pumps

Application   Hot water pipes in both domestic and commercial buildings

Features   Maintains water temperature at approximately 50°C to 60°C
Supplied by the metre – order as much or as little as required
Power consumption decreases as pipe temperature increases
Can be cut to length on site
Full length earth braid and thermoplastic outer jacket
Installed onto pipe under insulation
Maximum exposure temperature (on or off): 100°C
Maximum circuit length: 128mm

Cable

Model	W/m	Volts	List Price/m
WM-09	9	230	£25.00

Accessories

	Model	Description	List Price
	CRJ-T1	Termination Kit (shrink-on)	£20.00
	THK	Termination Kit (silicone)	£52.00
	CRJ-S	Splice/T Kit	£21.00
	PF-T	Fixing Tape (33m x 19mm)	£4.00
	AL-50	Aluminium Tape (45m x 50mm)	£16.00
	PF-L	Caution Label (10 pack)	£8.50
	THJ	Junction Box IP66	£45.00

Selection Table

	Insulation Thickness (mm)					
Maintain Temperature	15mm Pipe	22mm Pipe	28mm Pipe	35mm Pipe	42mm Pipe	54mm Pipe
60°C	25	30	40	50	60	75
55°C	20	25	30	40	50	60
50°C	15	20	25	30	40	50

• Plastic or stainless steel pipes must be wrapped in aluminium tape before installation

• Cable installed in a straight line

• Mineral wool insulation

SCH ▸ CEILING GRID FAN HEATERS

Function Space heating in commercial premises
Ceiling mounting allows free use of floor and wall space

Application Shops
Cafes
Changing rooms
Entrance areas

Features Designed to rest in the T bar of a 600 x 600 suspended ceiling
White egg-crate grille supplied with every heater
Low profile design – only 200mm clearance required above grid
Models with a 'T' suffix have adjustable electronic thermostat
Can be controlled by CS-7 controller and/or suitably rated thermostat (3kW: 16A, 4.5kW: 20A, 6kW: 10A)
For multi-heater installations see SystemX (page 26-27)

SCH Ceiling Grid Fan Heaters

Model	kW	Built-in Thermostat	List Price
SCHG-30	3.0	No	£347.00
SCHG-30T	3.0	Yes	£494.00
SCHG-45	4.5	No	£404.00
SCHG-45T	4.5	Yes	£519.00
SCHG-60	6.0	No	£579.00
SCHG-60T	6.0	Yes	£699.00

Controls

	Description	Model	Details	List Price
	Switch (on/off/high heat/low heat/fan only)	CS-7	Page 124	£87.00
	Electronic programmable thermostat 16A (recessed)	RD16	Page 114	£58.00
	Electronic programmable thermostat 16A	RT16	Page 115	£128.00
	Electronic programmable thermostat 26A	RT26	Page 115	£158.00
	Wi-Fi electronic thermostat 16A (recessed – free app)	WD16	Page 116	£117.00
	Wi-Fi electronic thermostat 16A (free app)	WT16	Page 116	£187.00
	Wi-Fi electronic thermostat 26A (free app)	WT26	Page 117	£220.00
	Adjustable room thermostat 20A	RST2-IN	Page 112	£114.00
	Tamperproof thermostat 20A	RST-TP	Page 112	£122.00

Technical

kW		Volts	Airflow (m³/h)	dB*@2m	Recommended Mounting Height(m)		Weight (kg)
High	Low				Min	Max	
3.0	2.0	230	245	56	2.4	3.0	9.0
4.5	2.25	230	345	60	3.0	4.5	10
6.0	4.0	230	490	58	2.4	3.0	13

*Noise levels are factory tested not laboratory tested

XC SystemX CEILING GRID FAN HEATERS
'plug and play control'

Cat 5 Cable

600 x 600 Ceiling grid

SystemX Fan Heater

SHOP

SystemX Controller

CLICK

CLICK

CLICK

Connect heater to heater

Connect controller to heater

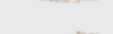Each heater requires a 230V supply

Function	Space heating in commercial premises
	Ceiling mounting allows free use of floor and wall space
Application	Shops
	Cafes
	Changing rooms
	Entrance areas
Features	Control up to 12 heaters from a single point
	Designed to rest in the T bar of a 600 x 600 suspended ceiling
	White egg-crate grille supplied as standard
	Low profile design – only 200mm clearance required above grid
	All control connections by Cat5 cable for super quick error-free installation
	Controllers do not require their own 230V supply
	BMS compatible using CX-BMS module
	Can be controlled in a group with any other style of SystemX heater

*System**X*** Ceiling Grid Fan Heaters

Model	kW	List Price
XC-30	3.0	£451.00
XC-45	4.5	£516.00
XC-60	6.0	£693.00

*System**X*** Control Components

	Description	Model	Details	List Price
	Controller with thermostat On/off/low/high/fan only settings	CX1	Page 130	£128.00
	Controller with tamper resistant thermostat On/off/low/high/fan only settings	CX2	Page 130	£131.00
	Controller - manual On/off/low/high/fan only settings	CX3	Page 130	£130.00
	Controller with digital programmable thermostat	CX6	Page 130	£226.00
	BMS module for use with volt-free signal	CX-BMS	Page 130	£123.00
	Optional remote sensor for use with CX1, CX2 or CX6 controllers	CXS	Page 130	£36.00
	Cat5 cable terminated 5m	DX05	-	£8.50
	Cat5 cable terminated 10m	DX10	-	£13.50
	Cat5 cable terminated 20m	DX20	-	£20.50
	Cat5 cable joiner	JX1	-	£4.50

Technical

kW		Volts	Airflow (m³/h)	dB*@2m	Recommended Mounting Height(m)		Weight (kg)
High	Low				Min	Max	
3.0	2.0	230	245	56	2.4	3.0	9.0
4.5	2.25	230	345	60	3.0	4.5	10
6.0	4.0	230	490	58	2.4	3.0	13

*Noise levels are factory tested not laboratory tested

Case studies

Art Gallery

Location: Margate, Kent
Installed: 1 x 6kW Ceiling Grid Fan Heater

Supersport Ltd
Location: Tunstall, Stoke-on-Trent
Installed: 4 x 3kW Ceiling Grid Fan Heaters

SMH ▸ SURFACE MOUNT CEILING HEATERS

Function　Space heating in commercial premises
Ceiling mounting allows free use of floor and wall space

Application　Shops
Cafes
Changing rooms
Entrance areas

Features　Compact design – only 152mm high
Keyhole screw fixing or suspend from drop rods (M6 threaded holes provided)
Models with a 'T' suffix have adjustable electronic thermostat
Can be controlled by CS-7 controller and/or suitably rated thermostat (3kW: 16A, 4.5kW: 20A, 6kW: 10A)
For multi-heater installations see SystemX (page 32-33)

SMH Surface Mount Ceiling Heaters

Model	kW	Built-in Thermostat	List Price
SMH-30	3.0	No	£358.00
SMH-30T	3.0	Yes	£490.00
SMH-45	4.5	No	£388.00
SMH-45T	4.5	Yes	£519.00
SMH-60	6.0	No	£592.00
SMH-60T	6.0	Yes	£699.00

Controls

	Description	Model	Details	List Price
	Switch (on/off/high heat/low heat/fan only)	CS-7	Page 124	£87.00
	Electronic programmable thermostat 16A (recessed)	RD16	Page 114	£58.00
	Electronic programmable thermostat 16A	RT16	Page 115	£128.00
	Electronic programmable thermostat 26A	RT26	Page 115	£158.00
	Wi-Fi electronic thermostat 16A (recessed – free app)	WD16	Page 116	£117.00
	Wi-Fi electronic thermostat 16A (free app)	WT16	Page 116	£187.00
	Wi-Fi electronic thermostat 26A (free app)	WT26	Page 117	£220.00
	Adjustable room thermostat 20A	RST2-IN	Page 112	£114.00
	Tamperproof thermostat 20A	RST-TP	Page 112	£122.00

Technical

kW		Volts	Airflow (m³/h)	dB*@2m	Recommended Mounting Height(m)		Dimensions(mm)			Weight (kg)
High	Low				Min	Max	W	D	H	
3.0	2.0	230	245	56	2.4	3.0	575	392	152	8.0
4.5	2.25	230	345	60	3.0	4.5	575	392	152	11.0
6.0	4.0	230	490	58	2.4	3.0	575	592	152	12.5

*Noise levels are factory tested not laboratory tested

XS *System**X*** SURFACE MOUNT CEILING HEATERS

'plug and play control'
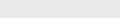
Function	Space heating in commercial premises
	Ceiling mounting allows free use of floor and wall space
Application	Shops
	Cafes
	Changing rooms
	Entrance areas
Features	Control up to 12 heaters from a single point
	Compact design – only 152mm high
	Keyhole screw fixing or suspend from drop rods (M6 threaded holes provided)
	All control connections by Cat5 cable for super quick error-free installation
	Controllers do not require their own 230V supply
	BMS compatible using CX-BMS module
	Can be controlled in a group with any other style of SystemX heater

*System***X** Surface Mount Ceiling Heaters

Model	kW	List Price
XS-30	3.0	£457.00
XS-45	4.5	£486.00
XS-60	6.0	£701.00

*System***X** Control Components

	Description	Model	Details	List Price
	Controller with thermostat On/off/low/high/fan only settings	CX1	Page 130	£128.00
	Controller with tamper resistant thermostat On/off/low/high/fan only settings	CX2	Page 130	£131.00
	Controller - manual On/off/low/high/fan only settings	CX3	Page 130	£130.00
	Controller with digital programmable thermostat	CX6	Page 130	£226.00
	BMS module for use with volt-free signal	CX-BMS	Page 130	£123.00
	Optional remote sensor for use with CX1, CX2 or CX6 controllers	CXS	Page 130	£36.00
	Cat5 cable terminated 5m	DX05	-	£8.50
	Cat5 cable terminated 10m	DX10	-	£13.50
	Cat5 cable terminated 20m	DX20	-	£20.50
	Cat5 cable joiner	JX1	-	£4.50

Technical

| kW | | Volts | Airflow (m³/h) | dB*@2m | Recommended Mounting Height(m) | | Dimensions(mm) | | | Weight (kg) |
High	Low				Min	Max	W	D	H	
3.0	2.0	230	245	56	2.4	3.0	575	392	152	8.0
4.5	2.25	230	345	60	3.0	4.5	575	392	152	11.0
6.0	4.0	230	490	58	2.4	3.0	575	592	152	12.5

*Noise levels are factory tested not laboratory tested

Case studies

The Original Factory Shop

Location: Llandudno, Wales
Installed: 11 x 4.5kW Surface Mount Ceiling Heaters
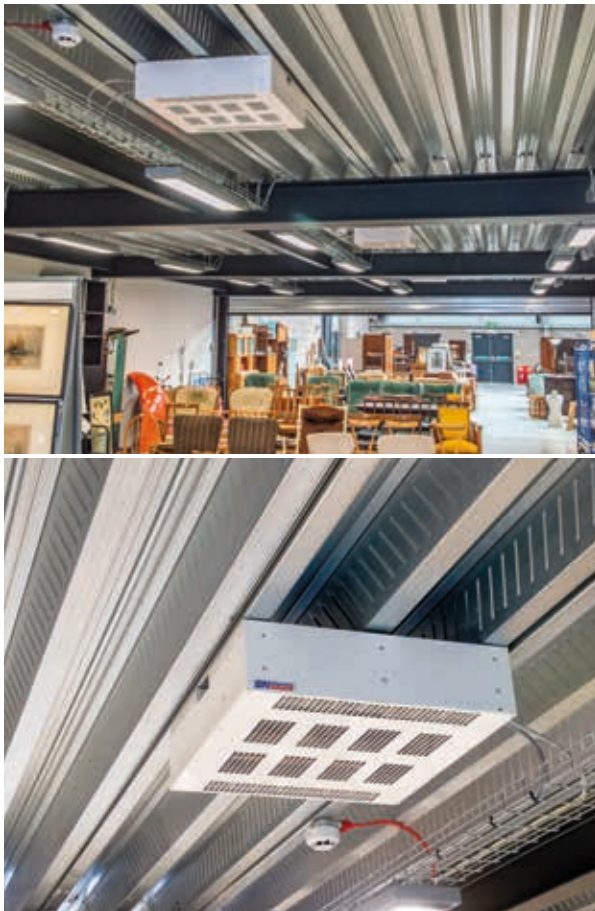
The Rural Auction Centre

Location: Milnthorpe, Cumbria
Installed: 7 x 6kW Surface Mount Ceiling Heaters

800 ▷ OVERDOOR HEATERS
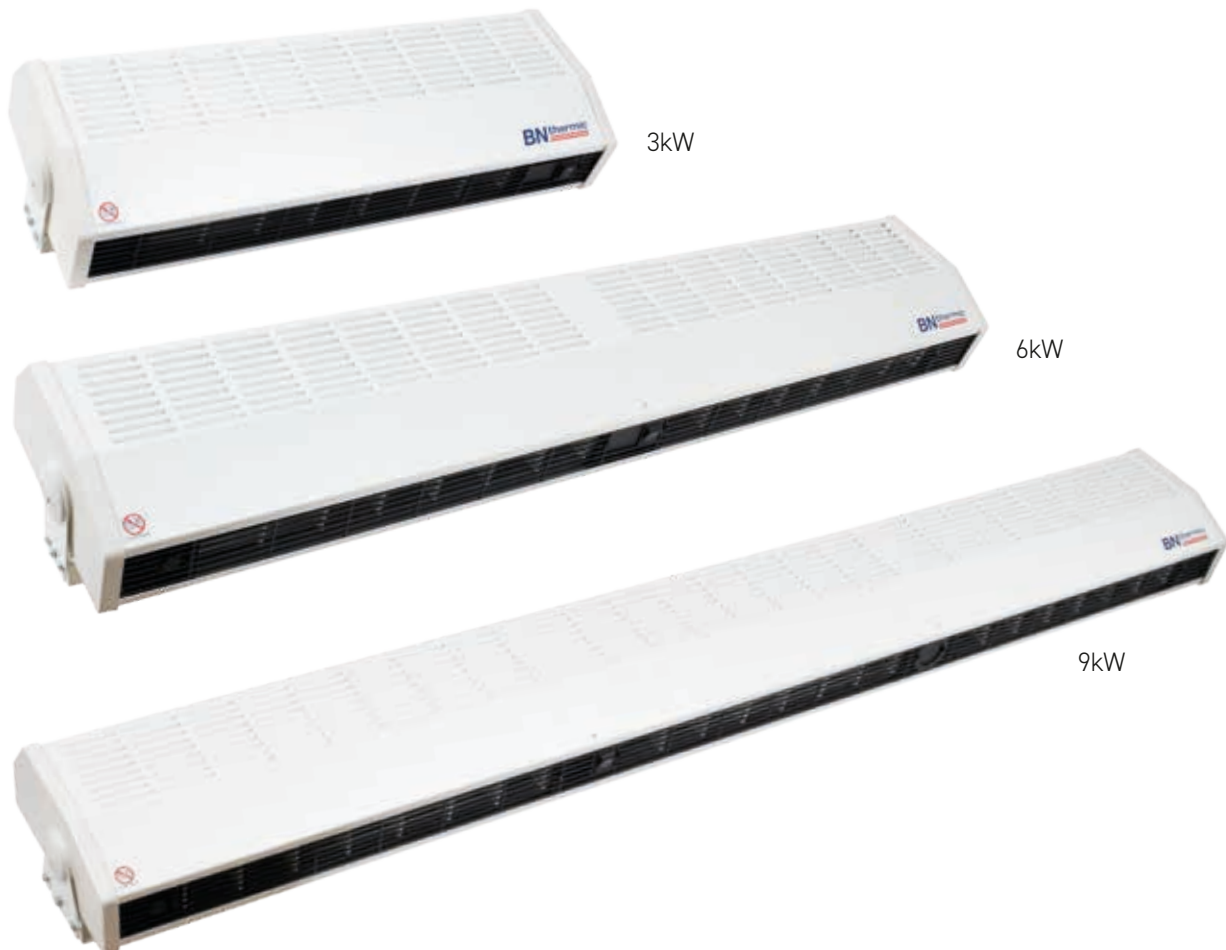
3kW

6kW

9kW

Function	Overdoor heating in commercial premises
	Space heating in commercial premises
Application	Shops
	Cafes
	Changing rooms
	Entrance areas
	Community halls
Features	Dual function bracket for overdoor or space heating (overdoor only for 9kW heater)
	M8 threaded holes for drop rod suspension
	Models with a 'T' suffix have adjustable electronic thermostat
	Can be controlled by CS-7 controller and/or suitably rated thermostat (3kW: 16A, 6kW: 10A, 9kW: 3A)
	For multi-heater installations see SystemX (page 38-39)

800 Series Overdoor Heaters

Model	kW	Built-in Thermostat	List Price
830	3.0	No	£296.00
830T	3.0	Yes	£408.00
860	6.0	No	£545.00
860T	6.0	Yes	£681.00
890	9.0	No	£892.00
890T	9.0	Yes	£998.00

Controls

	Description	Model	Details	List Price
	Switch (on/off/high heat/low heat/fan only)	CS-7	Page 124	£87.00
	Electronic programmable thermostat 16A (recessed)	RD16	Page 114	£58.00
	Electronic programmable thermostat 16A	RT16	Page 115	£128.00
	Electronic programmable thermostat 26A	RT26	Page 115	£158.00
	Wi-Fi electronic thermostat 16A (recessed – free app)	WD16	Page 116	£117.00
	Wi-Fi electronic thermostat 16A (free app)	WT16	Page 116	£187.00
	Wi-Fi electronic thermostat 26A (free app)	WT26	Page 117	£220.00
	Adjustable room thermostat 20A	RST2-IN	Page 112	£114.00
	Tamperproof thermostat 20A	RST-TP	Page 112	£122.00

Technical

kW		Volts	Airflow (m³/h)	dB*@2m	Recommended Mounting Height(m)		Dimensions(mm)			Weight (kg)
High	Low				Min	Max	W	D	H	
3.0	2.0	230	245	56	1.8	3.0	635	108	225	7.0
6.0	4.0	230	490	58	1.8	3.0	1105	108	225	11.5
9.0	6.0	230 or 400/3N	735	58	1.8	3.0	1620	108	225	17

*Noise levels are factory tested not laboratory tested

XD *SystemX* OVERDOOR HEATERS
'plug and play control'

Function
Overdoor heating in commercial premises
Space heating in commercial premises

Application
Shops
Cafes
Changing rooms
Entrance areas
Community halls

Features
Control up to 12 heaters from a single point
Dual function bracket for overdoor or space heating (overdoor only for 9kW heater)
M8 threaded holes for drop rod suspension
All control connections by Cat5 cable for super quick error-free installation
Controllers do not require their own 230V supply
BMS compatible using CX-BMS module
Can be controlled in a group with any other style of SystemX heater

SystemX Overdoor Heaters

Model	kW	List Price
XD-30	3.0	£437.00
XD-60	6.0	£726.00
XD-90	9.0	£982.00

SystemX Control Components

	Description	Model	Details	List Price
	Controller with thermostat On/off/low/high/fan only settings	CX1	Page 130	£128.00
	Controller with tamper resistant thermostat On/off/low/high/fan only settings	CX2	Page 130	£131.00
	Controller - manual On/off/low/high/fan only settings	CX3	Page 130	£130.00
	Controller with digital programmable thermostat	CX6	Page 130	£226.00
	BMS module for use with volt-free signal	CX-BMS	Page 130	£123.00
	Optional remote sensor for use with CX1, CX2 or CX6 controllers	CXS	Page 130	£36.00
	Cat5 cable terminated 5m	DX05	-	£8.50
	Cat5 cable terminated 10m	DX10	-	£13.50
	Cat5 cable terminated 20m	DX20	-	£20.50
	Cat5 cable joiner	JX1	-	£4.50

Technical

| kW | | Volts | Airflow (m³/h) | dB*@2m | Recommended Mounting Height(m) | | Dimensions(mm) | | | Weight (kg) |
High	Low				Min	Max	W	D	H	
3.0	2.0	230	245	56	1.8	3.0	635	108	225	7.0
6.0	4.0	230	490	58	1.8	3.0	1105	108	225	11.5
9.0	6.0	230 or 400/3N	735	58	1.8	3.0	1620	108	225	17

*Noise levels are factory tested not laboratory tested

Case studies

St James' Church
Location: Egerton, Kent
Installed: 1 x 6kW Overdoor Heater

The Original Factory Shop
Location: Llandudno, Wales
Installed: 1 x 6kW Overdoor Heater

RH ▸ RECESSED FAN HEATERS
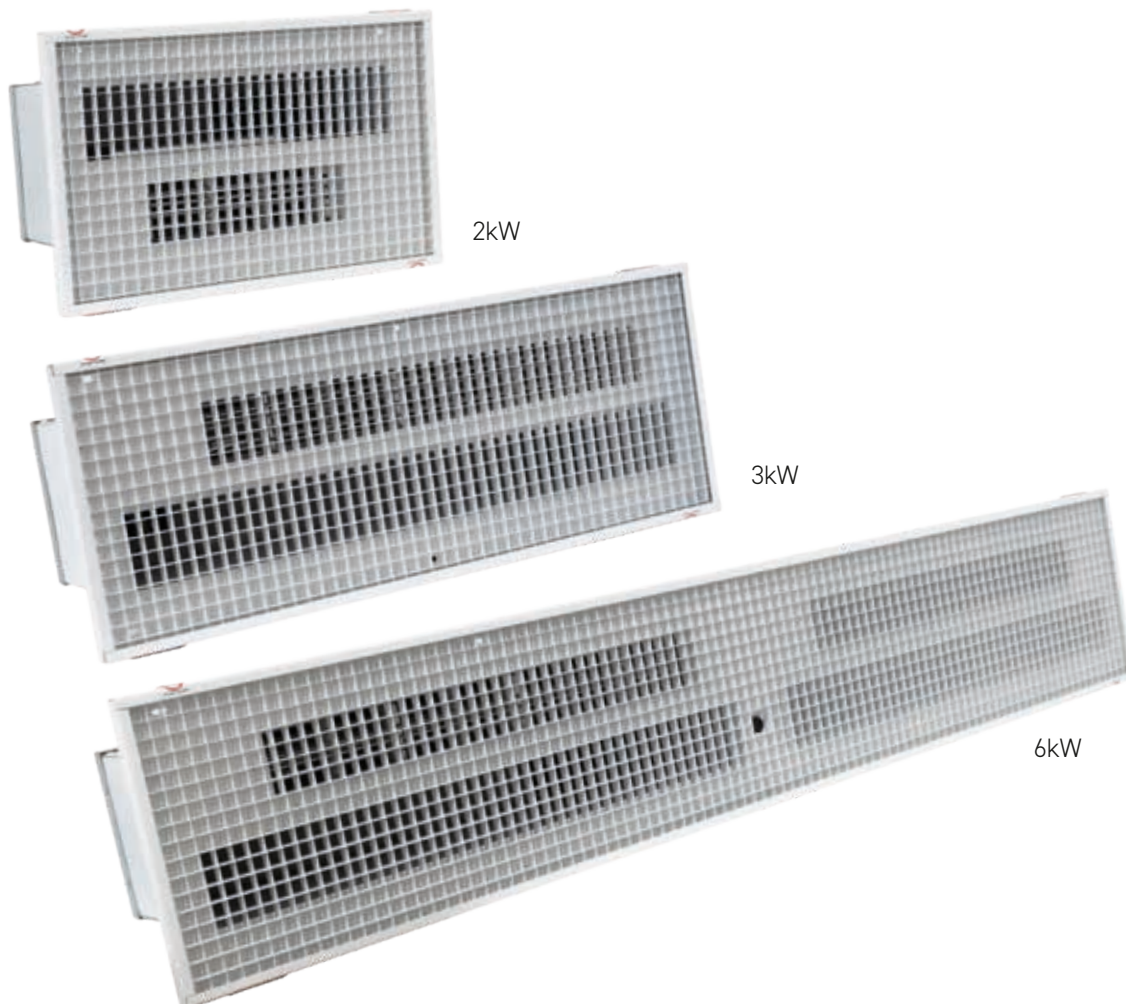
2kW

3kW

6kW

Function   Overdoor heating in commercial premises
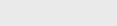   Space heating in commercial premises

Application   Shops
             Cafes
             Changing rooms
             Entrance areas

Features   Air inlet and outlet through front panel
             Simple fixing through front face of heater
             Only 200mm clearance required above ceiling
             Suitable for vertical or horizontal air discharge
             Can be controlled by CS-7 controller and/or suitably rated thermostat
             (3kW: 16A, 6kW: 10A, 9kW: 3A)
             For multi-heater installations see SystemX (page 44-45)

RH Recessed Fan Heaters

Model	kW	List Price
RH-20	2.0	£273.00
RH-30	3.0	£347.00
RH-60	6.0	£696.00

Controls

	Description	Model	Details	List Price
	Switch (on/off/high heat/low heat/fan only)	CS-7	Page 124	£87.00
	Electronic programmable thermostat 16A (recessed)	RD16	Page 114	£58.00
	Electronic programmable thermostat 16A	RT16	Page 115	£128.00
	Electronic programmable thermostat 26A	RT26	Page 115	£158.00
	Wi-Fi electronic thermostat 16A (recessed – free app)	WD16	Page 116	£117.00
	Wi-Fi electronic thermostat 16A (free app)	WT16	Page 116	£187.00
	Wi-Fi electronic thermostat 26A (free app)	WT26	Page 117	£220.00
	Adjustable room thermostat 20A	RST2-IN	Page 112	£114.00
	Tamperproof thermostat 20A	RST-TP	Page 112	£122.00

Dimensions

kW	A (mm)	B (mm)	Aperture Size (mm)	Insert Clearance (mm)
2.0	163	307	315 x 150	200
3.0	597	550	560 x 150	200
6.0	1198	1138	1148 x 150	200

Technical

kW High	Low	Volts	Airflow (m³/h)	dB* @2m	Min	Max	Weight (kg)
2.0	1.0	230	132	50	1.8	2.4	4.0
3.0	2.0	230	245	56	1.8	3.0	6.0
6.0	4.0	230	490	58	1.8	3.0	12

*Noise levels are factory tested not laboratory tested

Case studies pages 46 & 47
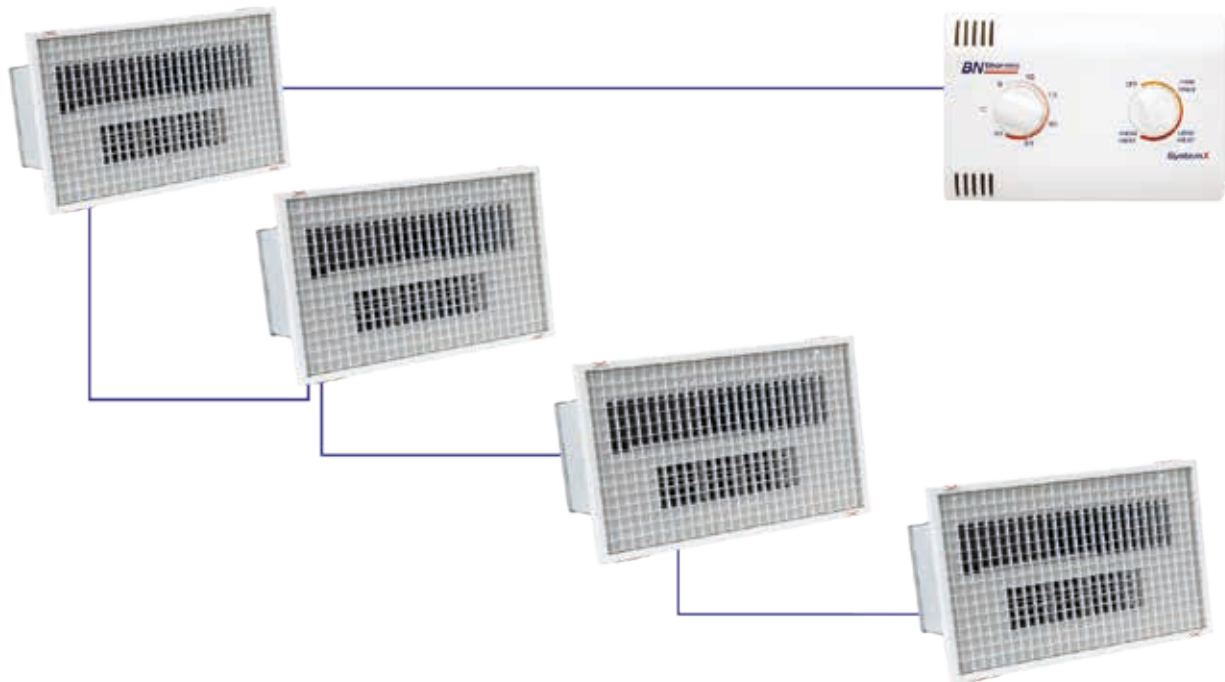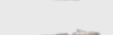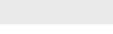
SystemX RECESSED HEATERS

XR

'plug and play control'

Function	Overdoor heating in commercial premises
	Space heating in commercial premises
Application	Shops
	Cafes
	Changing rooms
	Entrance areas
Features	Control up to 12 heaters from a single point
	Air inlet and outlet through front panel
	Simple fixing through front face of heater
	Only 200mm clearance required above ceiling
	Suitable for vertical or horizontal air discharge
	All control connections by Cat5 cable for super quick error-free installation
	Controllers do not require their own 230V supply
	BMS compatible using CX-BMS module
	Can be controlled in a group with any other style of SystemX heater

*System**X*** Recessed Heaters

Model	kW	List Price
XR-20	2.0	£391.00
XR-30	3.0	£456.00
XR-60	6.0	£783.00

*System**X*** Control Components

	Description	Model	Details	List Price
	Controller with thermostat On/off/low/high/fan only settings	CX1	Page 130	£128.00
	Controller with tamper resistant thermostat On/off/low/high/fan only settings	CX2	Page 130	£131.00
	Controller - manual On/off/low/high/fan only settings	CX3	Page 130	£130.00
	Controller with digital programmable thermostat	CX6	Page 130	£226.00
	BMS module for use with volt-free signal	CX-BMS	Page 130	£123.00
	Optional remote sensor for use with CX1, CX2 or CX6 controllers	CXS	Page 130	£36.00
	Cat5 cable terminated 5m	DX05	-	£8.50
	Cat5 cable terminated 10m	DX10	-	£13.50
	Cat5 cable terminated 20m	DX20	-	£20.50
	Cat5 cable joiner	JX1	-	£4.50

Dimensions

kW	A (mm)	B (mm)	Aperture Size (mm)	Insert Clearance (mm)
2.0	163	307	315 x 150	200
3.0	597	550	560 x 150	200
6.0	1198	1138	1148 x 150	200

Technical

kW High	kW Low	Volts	Airflow (m³/h)	dB* @2m	Recommended Mounting Height (m) Min	Recommended Mounting Height (m) Max	Weight (kg)
2.0	1.0	230	132	50	1.8	2.4	4.0
3.0	2.0	230	245	56	1.8	3.0	6.0
6.0	4.0	230	490	58	1.8	3.0	12

*Noise levels are factory tested not laboratory tested

Case studies

Mind Charity Shop
Location: Camden, London
Installed: 3 x 3kW Recessed Heaters

The Perfume Shop
Location: Wood Green, London
Installed: 2 x 3kW Recessed Heaters

CA COMMERCIAL AIR CURTAINS

3kW/4.5kW

6kW/9kW

9kW/13.5kW

Function	Produces a higher air velocity than an overdoor heater for a more efficient air screen
	Helps reduce heating costs by inhibiting heat loss
	Contributes to indoor air temperature
Application	Convenience stores
	Hotel Lobbies
	Schools
Features	Bracket for wall or ceiling mounting
	M8 threaded holes for drop rod suspension
	Can be controlled by CS-7 controller and/or suitably rated thermostat (3kW: 16A, 6kW: 10A, 9kW: 3A)
	For multi air curtain installations see SystemX (page 50-51)

CA Commercial Air Curtains

Model	kW	Built-in Thermostat	Length (mm)	List Price
CAS-30	3.0	No	635	£433.00
CAS-30T	3.0	Yes	635	£582.00
CAS-45	4.5	No	635	£442.00
CAS-45T	4.5	Yes	635	£587.00
CAD-60	6.0	No	1105	£735.00
CAD-60T	6.0	Yes	1105	£879.00
CAD-90	9.0	No	1105	£789.00
CAD-90T	9.0	Yes	1105	£919.00
CAT-90	9.0	No	1620	£934.00
CAT-90T	9.0	Yes	1620	£1,121.00
CAT-135	13.5	No	1620	£1,050.00
CAT-135T	13.5	Yes	1620	£1,153.00

Controls

	Description	Model	Details	List Price
	Switch (on/off/high heat/low heat/fan only)	CS-7	Page 124	£87.00
	Electronic programmable thermostat 16A	RT16	Page 115	£128.00
	Electronic programmable thermostat 26A	RT26	Page 115	£158.00
	Wi-Fi electronic thermostat 16A (free app)	WT16	Page 116	£187.00
	Wi-Fi electronic thermostat 26A (free app)	WT26	Page 117	£220.00
	Adjustable room thermostat 20A	RST2-IN	Page 112	£114.00
	Tamperproof thermostat 20A	RST-TP	Page 112	£122.00

Technical

Model	kW		Volts	Airflow (m³/h)	dB* @2m	Recommended Mounting Height(m)		Dimensions (mm)			Weight (kg)
	High	Low				Min	Max	W	D	H	
CAS	3.0	2.0	230	345	60	2.5	3.5	635	108	225	8.5
CAS	4.5	2.25	230	345	60	2.5	3.5	635	108	225	8.5
CAD	6.0	4.0	230	690	62	2.5	3.5	1105	108	225	13.5
CAD	9.0	4.5	230	690	62	2.5	3.5	1105	108	225	13.5
CAT	9.0	6.0	230 or 400/3N	1035	62	2.5	3.5	1620	108	225	19
CAT	13.5	6.75	400/3N	1035	62	2.5	3.5	1620	108	225	19

*Noise levels are factory tested not laboratory tested

XA *System**X*** COMMERCIAL AIR CURTAINS

'plug and play control'
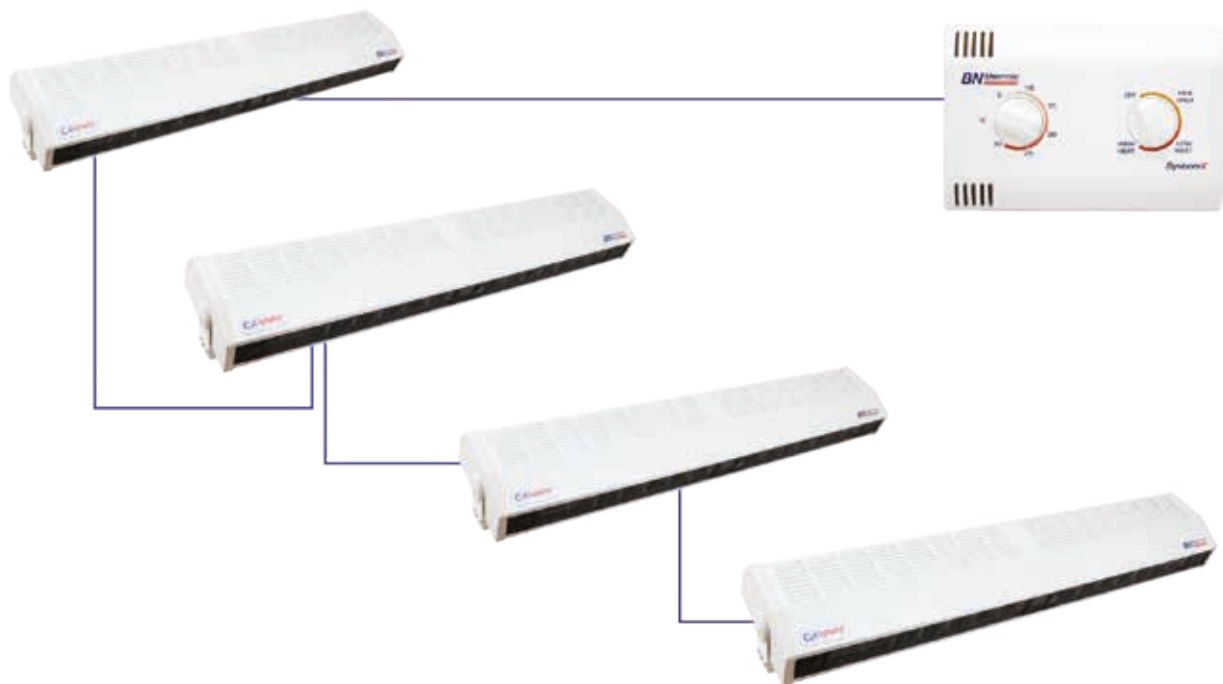
Function	Produces a higher air velocity than an overdoor heater for a more efficient air screen
	Helps reduce heating costs by inhibiting heat loss
	Contributes to indoor air temperature

Application	Convenience stores
	Hotel Lobbies
	Schools

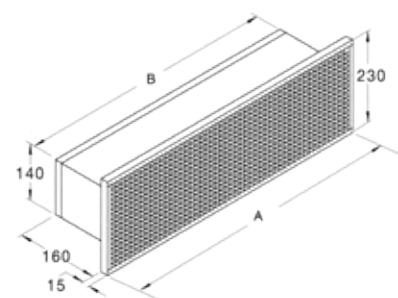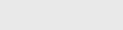| **Features**	Control up to 12 air curtains from a single point
	Bracket for wall or ceiling mounting
	M8 threaded holes for drop rod suspension
	All control connections by Cat5 cable for super quick error-free installation
	Controllers do not require their own 230V supply
	BMS compatible using CX-BMS module
	Can be controlled in a group with any other style of SystemX heater

System X Commercial Air Curtains

Model	kW	Length (mm)	List Price
XAS-30	3.0	635	£513.00
XAS-45	4.5	635	£523.00
XAD-60	6.0	1105	£815.00
XAD-90	9.0	1105	£921.00
XAT-90	9.0	1620	£1,035.00
XAT-135	13.5	1620	£1,169.00

System X Control Components

	Description	Model	Details	List Price
	Controller with thermostat On/off/low/high/fan only settings	CX1	Page 130	£128.00
	Controller with tamper resistant thermostat On/off/low/high/fan only settings	CX2	Page 130	£131.00
	Controller - manual On/off/low/high/fan only settings	CX3	Page 130	£130.00
	Controller with digital programmable thermostat	CX6	Page 130	£226.00
	BMS module for use with volt-free signal	CX-BMS	Page 130	£123.00
	Optional remote sensor for use with CX1, CX2 or CX6 controllers	CXS	Page 130	£36.00
	Cat5 cable terminated 5m	DX05	-	£8.50
	Cat5 cable terminated 10m	DX10	-	£13.50
	Cat5 cable terminated 20m	DX20	-	£20.50
	Cat5 cable joiner	JX1	-	£4.50

Technical

Model	kW		Volts	Airflow (m³/h)	dB* @2m	Recommended Mounting Height(m)		Dimensions (mm)			Weight (kg)
	High	Low				Min	Max	W	D	H	
XAS	3.0	2.0	230	345	60	2.5	3.5	635	108	225	8.5
XAS	4.5	2.25	230	345	60	2.5	3.5	635	108	225	8.5
XAD	6.0	4.0	230	690	62	2.5	3.5	1105	108	225	13.5
XAD	9.0	4.5	230	690	62	2.5	3.5	1105	108	225	13.5
XAT	9.0	6.0	230 or 400/3N	1035	62	2.5	3.5	1620	108	225	19
XAT	13.5	6.75	400/3N	1035	62	2.5	3.5	1620	108	225	19

*Noise levels are factory tested not laboratory tested

Case studies

M3 Service Station

Location: Hampshire
Installed: 1 x 9kW Commercial Air Curtain

Bedford Timber Supplies

Location: Bedford
Installed: 1 x 13.5kW Commercial Air Curtain

OUH INDUSTRIAL FAN HEATERS

Function   Space heating in industrial buildings

Application   Warehouses
Factories
Workshops

Features   FIVE YEAR WARRANTY
Robust all-steel construction
Bracket for wall or ceiling mounting and hooks for vertical suspension
Built-in adjustable thermostat plus overtemperature and heat purge devices
Fitted with fused control circuit and contactor
Optional switch provides on/off/fan only settings
Remote-mounted programmable thermostats available
Switch and/or thermostat can be connected to a chain of up to 16 heaters
For multi-heater installations we recommend SystemX (page 56-57)

OUH Industrial Fan Heaters

Model	kW	List Price
OUH2-03	3.0	£1,061.00
OUH2-05	5.0	£1,078.00
OUH2-07	7.5	£1,108.00
OUH2-10	10	£1,160.00
OUH2-15	15	£1,601.00
OUH2-20	20	£1,631.00
OUH2-25	25	£1,681.00

Controls

	Description	Model	Details	List Price
	Switch (On/off/fan only)	OUH2-S	Page 125	£75.00
	Electronic programmable thermostat 16A	RT16	Page 115	£128.00
	Wi-Fi electronic thermostat 16A (free app)	WT16	Page 116	£187.00
	Optional remote air sensor for RT16 or WT16	CXS	Page 130	£36.00
	Mechanical frost thermostat. Overrides other thermostats and OUH2-S switch	FST2-IN	Page 112	£104.00

Technical

kW	Volts	Airflow (m³/h)	dB*@2m	Dimensions(mm)			Weight (kg)
				W	D	H	
3.0	230 or 400/3N	1100	60	435	405	320	18
5.0	230 or 400/3N	1100	60	435	405	320	18
7.5	230 or 400/3N	1100	60	435	405	320	18
10	400/3N	1100	60	435	405	320	18
15	400/3N	3150	62	565	485	445	37
20	400/3N	3150	62	565	485	445	37
25	400/3N	3150	62	565	485	445	37

*Noise levels are factory tested not laboratory tested

Where roof height exceeds 4m we recommend using our DSU destratification units (see pages 60-61).

XH *SystemX* INDUSTRIAL FAN HEATERS

'plug and play control'
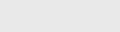
Function	Space heating in industrial buildings
Application	Warehouses
	Factories
	Workshops
Features	Control up to 12 heaters from a single point
	FIVE YEAR WARRANTY
	Robust all-steel construction
	Bracket for wall or ceiling mounting and hooks for vertical suspension
	Built-in adjustable thermostat plus overtemperature and heat purge devices
	All control connections by Cat5 cable for super quick error-free installation
	Controllers do not require their own 230V supply
	BMS compatible using CX-BMS module
Destratification	Where roof height exceeds 4m we recommend using our DSU destratification units (see pages 60-61)

SystemX Industrial Fan Heaters

Model	kW	List Price
XH-03	3.0	£1,106.00
XH-05	5.0	£1,129.00
XH-07	7.5	£1,156.00
XH-10	10	£1,210.00
XH-15	15	£1,671.00
XH-20	20	£1,714.00
XH-25	25	£1,780.00

SystemX Control Components

	Description	Model	Details	List Price
	Controller with thermostat On/off/low/high/fan only settings	CX1	Page 130	£128.00
	Controller with tamper resistant thermostat On/off/low/high/fan only settings	CX2	Page 130	£131.00
	Controller - manual On/off/low/high/fan only settings	CX3	Page 130	£130.00
	Controller with digital programmable thermostat	CX6	Page 130	£226.00
	BMS module for use with volt-free signal	CX-BMS	Page 130	£123.00
	Optional remote sensor for use with CX1, CX2 or CX6 controllers	CXS	Page 130	£36.00
	Cat5 cable terminated 5m	DX05	-	£8.50
	Cat5 cable terminated 10m	DX10	-	£13.50
	Cat5 cable terminated 20m	DX20	-	£20.50
	Cat5 cable joiner	JX1	-	£4.50

Technical

kW	Volts	Airflow (m³/h)	dB*@2m	Dimensions(mm)			Weight (kg)
				W	D	H	
3.0	230 or 400/3N	1100	60	435	405	320	18
5.0	230 or 400/3N	1100	60	435	405	320	18
7.5	230 or 400/3N	1100	60	435	405	320	18
10	400/3N	1100	60	435	405	320	18
15	400/3N	3150	62	565	485	445	37
20	400/3N	3150	62	565	485	445	37
25	400/3N	3150	62	565	485	445	37

*Noise levels are factory tested not laboratory tested

Case studies

Maranello Ferrari

Location: Egham, Surrey

Installed: 2 x 25kW Industrial Fan Heaters

Quaife Engineering Ltd
Location: Sevenoaks, Kent
Installed: 2 x 25kW Industrial Fan Heaters
3 x 15kW Industrial Fan Heaters

DSU ▸ DESTRATIFICATION UNITS

Function   Recycles warm air that has collected at high level

Reduces heating costs by up to 30%

Application   Industrial premises where roof height exceeds 4m

Warehouses

Exhibition halls

Factories

Often used with BN Thermic OUH industrial fan heaters

Features   Built-in thermostat automatically energises fan

Robust all-steel construction

Suspension kit provided (500mm chains and associated hooks)

Optional DSU-R fan speed regulator recommended to limit noise/draught

DSU Destratification Units

Model	Description	Details	List Price
DSU2-4	Destratification Unit (roof 4m to 7m	-	£803.00
DSU2-8	Destratification Unit (roof 7m to 12m)	-	£875.00
DSU-R	Fan Speed Regulator (each unit requires its own regulator)	Page 128	£149.00

Technical

Model	Volts	Airflow (m³/h)	Fan Motor (W)	Roof Height (m)	Area Covered (m)	dB* @ 5m	Dimensions (mm)			Weight (kg)
							H	W	D	
DSU2-4	230	4000	180	4 to 7	20 x 20	62	300	600	600	18
DSU2-8	230	8000	415	7 to 12	25 x 25	65	300	600	600	20

*Noise levels are factory tested not laboratory tested
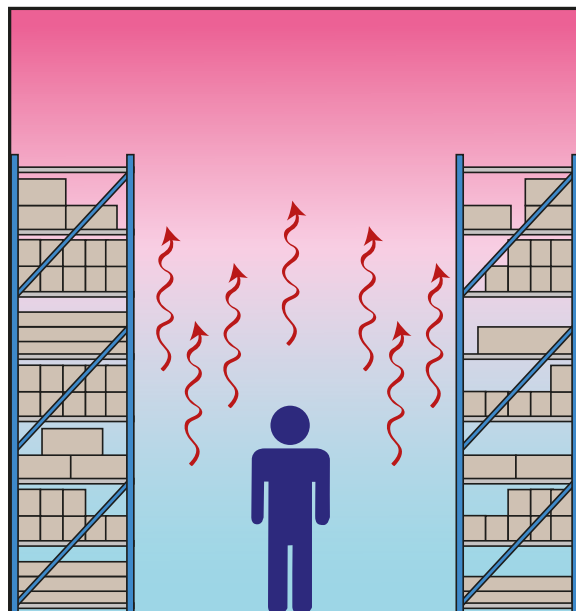
Without DSU2

Warm air accumulates at high level
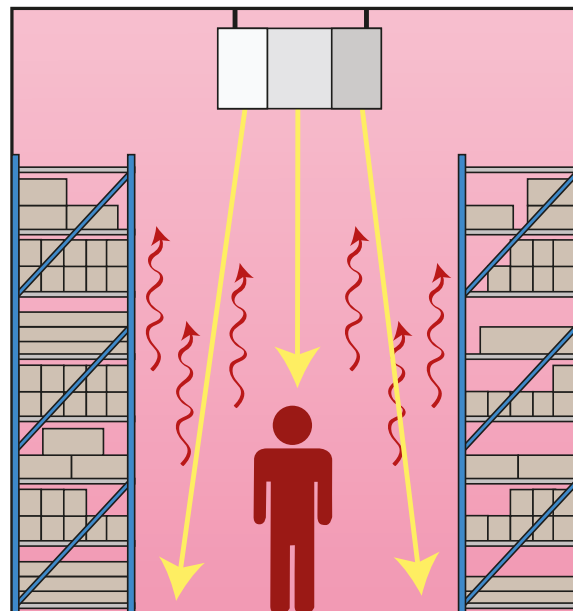
With DSU2

Warm air is recycled reducing heating costs by up to 30%

HCA HIGH CAPACITY AIR CURTAINS

Function Provides an invisible barrier across entrances to commercial premises
Reduces heating and air conditioning costs

Applications Large shops
Offices
Hotels

Features Wall-mount or suspend from drop rods
Recommended mounting height 2.5m to 4.0m
Control up to 12 air curtains from a single controller
All control connections by Cat5 data cable
Controllers do not require their own 230V supply
BMS compatible using CX-BMS module

Technical

Model	Volts	kW		Airflow (m³/h)		dB*@3m	Dimensions (mm)			Weight (kg)
		High	Low	High	Low		L	D	H	
HCA2-09	400/3N	9.0	4.5	1879	1444	66	1113	265	254	19.6
HCA2-13	400/3N	13.5	6.75	2617	2441	71	1621	265	254	25.4
HCA2-18	400/3N	18.0	9.0	4100	3834	68	2121	265	254	31.9

*Noise levels are factory tested not laboratory tested

HCA2-09

HCA2-13

HCA2-18

HCA Air Curtains

Model	kW (high)	Length (mm)	List Price
HCA2-09	9.0	1113	£2,224.00
HCA2-13	13.0	1621	£2,472.00
HCA2-18	18.0	2121	£3,043.00

Control Components (every installation will require a controller or BMS interface)

	Model	Description	Details	List Price
	CX1	Controller with thermostat	Page 130	£128.00
	CX2	Controller with tamperproof thermostat	Page 130	£131.00
	CX3	Controller without thermostat	Page 130	£130.00
	CX6	Controller with digital programmable thermostat	Page 130	£226.00
	CX-BMS	BMS Interface	Page 130	£123.00
	CXS	Optional remote sensor for CX1, CX2 or CX6	Page 130	£36.00
	DX05	Cat5 cable terminated 5m	-	£8.50
	DX10	Cat5 cable terminated 10m	-	£13.50
	DX20	Cat5 cable terminated 20m	-	£20.50
	JX1	Cat5 cable joiner	-	£4.50

Case studies

National Retail Chain

Location: Multiple UK Locations
Installed: 9kW, 13.5kW and 18kW High Capacity Air Curtains

Chiswick Park

Location: Chiswick, London
Installed: 2 x 18kW High Capacity Air Curtains

PH PEW HEATERS
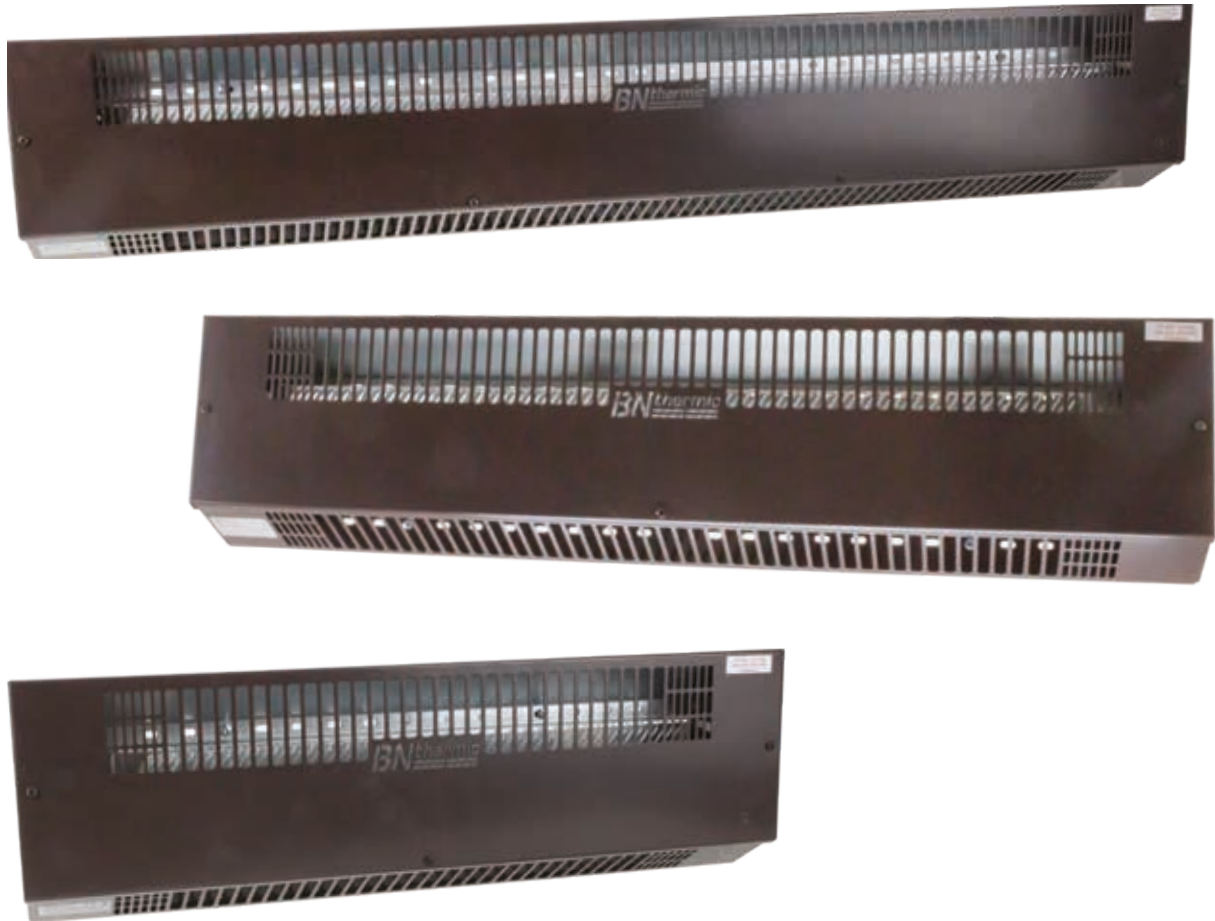
Function   Economic mans of heating a church congregation

Minimal pre-heating required ensuring low running costs

Features   Mounted directly below pew's seat

Dark brown paint finish reduces visual impact

Silent draught-free operation

Fixed directly to a pew's backboard or using optional brackets

Robust steel construction

20mm cable entries at both ends for electrical connection

External guard not required

Heaters

Model	Length (mm)	kW	List Price
PH30	525	0.3	£145.00
PH45	702	0.45	£166.00
PH65	948	0.65	£197.00

Technical

Model	kW	Volts	Dimensions (mm)			Weight (kg)
			L	D	H	
PH30	0.3	230	525	58	168	2.4
PH45	0.45	230	702	58	168	3.1
PH65	0.65	230	948	58	168	4.1

Optional Brackets

Model	Description	List Price
PHB	Suspension brackets (pair) assembled height 290mm	£35.00
PHF	Floor brackets (pair) assembled height 204mm	£30.00

Selection

Space Between Seat Supports (mm)		Recommended Heater
Minimum	Maximum	
600	750	PH30
750	1000	PH45
1000	1500	PH65
1500+		Multiple heaters
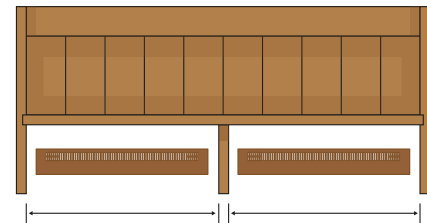
St James' Church

Location: Egerton, Kent
Installed: 45 x 300W Pew Heaters

St Peter & St Paul's Church

Location: Bergh Apton, Norfolk

Installed: 32 x 450W Pew Heaters

32 x Suspension Kits

SWD INDUSTRIAL FINNED TUBULAR HEATERS

Function	Comfort heating or frost protection in specialist industrial environments
Applications	Industrial kiosks
	Water treatment plants
	Lift shafts
	GRP enclosures
Features	Welded stainless steel construction
	Waterproof glass fibre terminal box IP66 rated
	Brackets for wall or floor mounting and M20 cable gland supplied as standard
	Available with or without built-in thermostat
	Optional zinc plated wire guards available

SWD Industrial Finned Tubular Heaters

Model	kW	Volts	Built-in Thermostat	List Price
SWD-A-500	0.5	230	Yes	£550.00
SWD-A-1000	1.0	230	Yes	£628.00
SWD-A-1500	1.5	230	Yes	£744.00
SWD-A-2000	2.0	230	Yes	£806.00
SWD-A-3000	3.0	230	Yes	£1,074.00
SWD-U-500	0.5	230	No	£400.00
SWD-U-1000	1.0	230 or 400/3	No	£478.00
SWD-U-1500	1.5	230 or 400/3	No	£579.00
SWD-U-2000	2.0	230 or 400/3	No	£661.00
SWD-U-3000	3.0	230 or 400/3	No	£922.00
SWD-U-4000	4.0	230 or 400/3	No	£1,250.00
SWD-U-500-1	0.5	110	No	£440.00
SWD-U-1000-1	1.0	110	No	£595.00
SWD-U-1500-1	1.5	110	No	£636.00

Technical

kW	Dimensions (mm)			Weight (kg)	Optional Guard
	L	W	H		
0.5	440	130	170	3.0	SWG-1
1.0	640	130	170	4.8	SWG-2
1.5	840	130	170	6.2	SWG-3
2.0	1040	130	170	7.7	SWG-3
3.0	1440	130	170	10.9	SWG-4
4.0	1840	130	170	13.7	SWG-5

Optional Guards

Model	Dimensions (mm)			Weight (kg)	List Price
	L	W	H		
SWG-1	450	240	240	1.0	£89.00
SWG-2	650	240	240	1.5	£111.00
SWG-3	1075	240	240	2.0	£131.00
SWG-4	1600	240	240	3.5	£213.00
SWG-5	1900	240	240	4.0	£220.00

Case studies

Control Room

Location: Various UK Locations

Installed: 1 x 500W Industrial Finned Tubular Heater with Thermostat

Industrial Kiosk

Location: Various Worldwide Locations
Installed: 1 x 1kW Industrial Finned Tubular Heater
with Thermostat

TX EXPLOSION–PROOF TUBULAR HEATERS
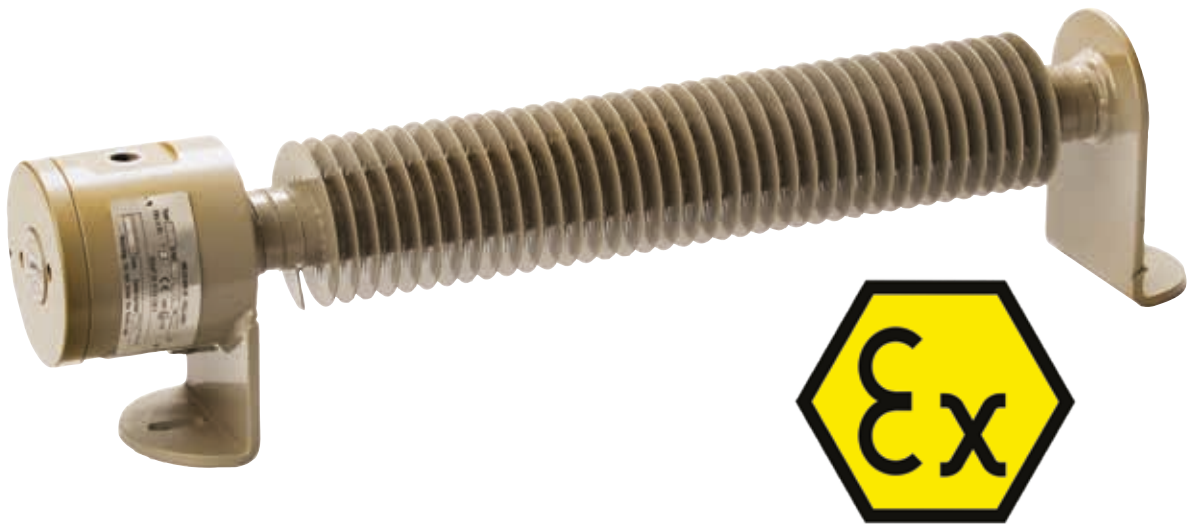
Function	Comfort heating or frost protection in hazardous areas
Applications	Petrochemical installations
	Spray shops
	Storage areas where hazardous gases or dusts may be present
Features	ATEX certified
	Equipment protection level Gb (gas) and Db (dust)
	Zones 1, 2, 21, 22 Groups IIC (gas), IIIC (dust)
	Temperature Class T3 (maximum ambient 40°C)
	IP66 rating
	Steel construction with grey epoxy finish
	Sturdy mounting feet for wall or floor mounting
	Optional zinc plated safety guards (open ended)

TX Explosion Proof Tubular Heaters

Model	kW	List Price
TXT3-05	0.5	£1,632.00
TXT3-10	1.0	£1,767.00
TXT3-15	1.5	£1,884.00

Thermostats

Model	Description	Details	List Price
TXST-01	ATEX thermostat (hazardous gas only)	Page 121	£931.00
TXST-03	ATEX thermostat (hazardous gas and dust)	Page 121	£1,960.00

Technical

Model	kW	Voltage	Dimensions (mm)			Weight (kg)	Optional Guard
			L	H	W		
TXT3-05	0.5	230	850	157	100	11.5	TXG-01
TXT3-10	1.0	230	1450	157	100	16.0	TXG-02
TXT3-15	1.5	230	2050	157	100	19.5	TXG-01 + TXG-02

Optional Guards

Model	Dimensions (mm)			Weight (kg)	List Price
	L	W	H		
TXG-01	739	190	153	1.0	£67.00
TXG-02	1348	190	153	2.0	£82.00

ETH 'ALL BLACK' RADIANT HEATERS

1.0kW

1.5kW

Function	Provides radiant heat without light output
	Suitable for domestic and commercial installations
Applications	Food courts
	Lunch counters
	Conservatories
	Orangeries
Features	Sophisticated 'all black' design
	IP44 rated
	Wall bracket with 'up and down' angle adjustment
	Can be suspended (milt-heater brackets available)
	2m power lead

ETH Radiant Heaters

Model	kW	List Price
ETH-10	1.0	£369.00
ETH-15	1.5	£432.00

Technical

Model	kW	Volts	Dimensions (mm)			Weight (kg)
			H	W	D	
ETH-10	1.0	230	140	1080	45	4.0
ETH-15	1.5	230	140	1580	45	6.0

Optional Multi–Heater Suspension Brackets

	Model	Heaters/Bracket	List Price
	ETH-B2	2	£96.00
	ETH-B3	3	£155.00

Case studies

The Cabin Bar

Location: Waterloo Train Station, London
Installed: 23 x 1.5kW All Black Radiant Heaters

The Village
Location: Solihull, West Midlands
Installed: 8 x 1.5kW All Black Radiant Heaters
4 x ETH-B2 Multi Heater Brackets

HWP PATIO HEATERS

1.5/2kW

3kW

4.5kW
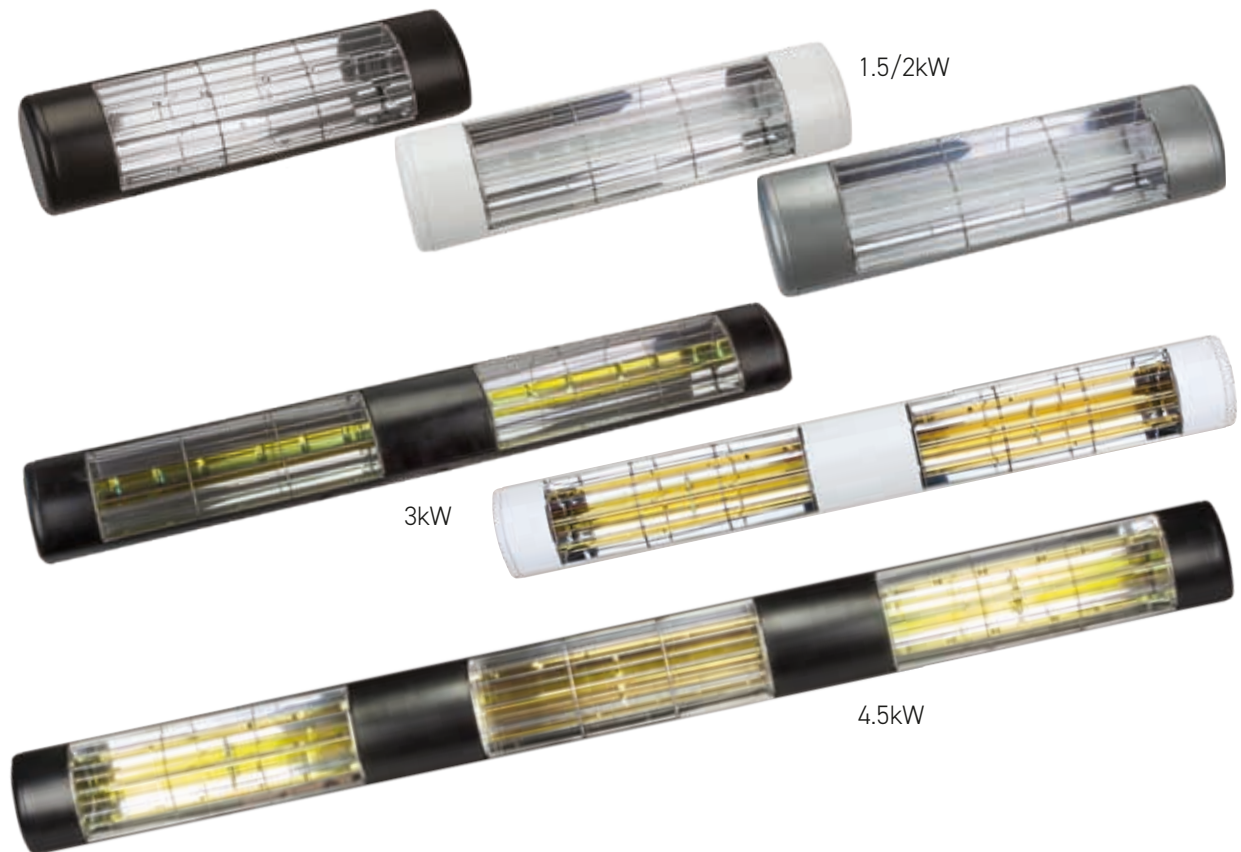
Function	Provides instant direct heat in outdoor locations
	Suitable for domestic and commercial installations
Applications	Pub gardens
	Pavement cafes
	Golf driving ranges
	Pergolas
Features	IP55 rated for outdoor use
	Replaceable halogen lamp with 7000 hours average operating life
	Wall bracket with 'up and down' angle adjustment
	Can be suspended
	3m power lead
	Magic Lamp option for reduced light output and zero-glare

Standard Heaters

Model	kW	Finish	Lamp Glow	List Price
HWP2-B	1.5	Black	Gold	£194.00
HWP2-W	1.5	White	Gold	£194.00
HWP2-S	1.5	Silver	Gold	£194.00
HWP2-2B	2.0	Black	Red	£235.00
HWP2-2W	2.0	White	Red	£235.00
HWP2-3B	3.0	Black	Red	£336.00
HWP2-3W	3.0	White	Red	£336.00
HWP2-45B	4.5	Black	Red	£474.00

Magic Lamp Heaters

Model	kW	Finish	Lamp Glow	List Price
HWP2-BM	1.5	Black	Magic Lamp (zero glare)	£282.00
HWP2-WM	1.5	White	Magic Lamp (zero glare)	£282.00
HWP2-SM	1.5	Silver	Magic Lamp (zero glare)	£282.00
HWP2-2BM	2.0	Black	Magic Lamp (zero glare)	£286.00
HWP2-2WM	2.0	White	Magic Lamp (zero glare)	£286.00
HWP2-3BM	3.0	Black	Magic Lamp (zero glare)	£510.00
HWP2-3WM	3.0	White	Magic Lamp (zero glare)	£510.00
HWP2-45BM	4.5	Black	Magic Lamp (zero glare)	£689.00

Accessories

	Model	Description	Details	List Price
	VR-2	Dimmer (3kW max)	Page 127	£164.00
	TS-7	Push button timer (6kW max)	Page 122	£157.00
	WH-402	Movement sensor (3kW max)	Page 127	£119.00

Technical

kW	Volts	Dimensions (mm)			Weight (kg)
		H	W	D	
1.5	230	120	480	140	1.7
2.0	230	120	480	140	1.7
3.0	230	120	960	140	3.2
4.5	230/400	120	1440	140	4.9

Area Covered (wall mounted)

kW	H (m)	X (m)	Y (m)	Z (m)	m²
1.5 or 2.0	2.0	2.3	2.4	4.0	7.6
1.5 or 2.0	2.5	3.0	3.0	5.2	12.3
3.0	2.0	3.4	2.4	4.5	9.5
3.0	2.5	4.2	3.0	5.8	15.0
4.5	2.0	4.3	2.4	5.0	11.2
4.5	2.5	4.8	3.0	6.4	16.8

For outdoor applications we recommend
300W/m² minimum

Wall mounted
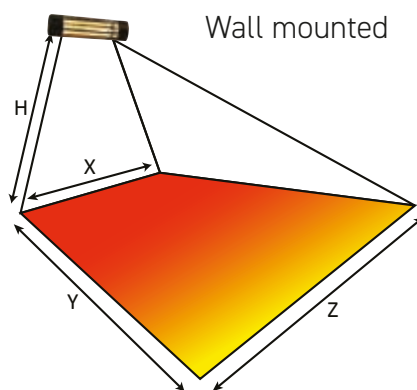
Area Covered (overhead mounted)

kW	H (m)	X (m)	Y (m)	m²
1.5 or 2.0	2.0	3.6	2.5	9.0
1.5 or 2.0	2.5	4.8	3.5	16.8
3.0	2.0	4.3	2.5	10.7
3.0	2.5	5.2	3.5	18.2
4.5	2.0	4.8	2.5	12.0
4.5	2.5	5.6	3.5	19.6

For outdoor applications we recommend
300W/m² minimum

Overhead mounted
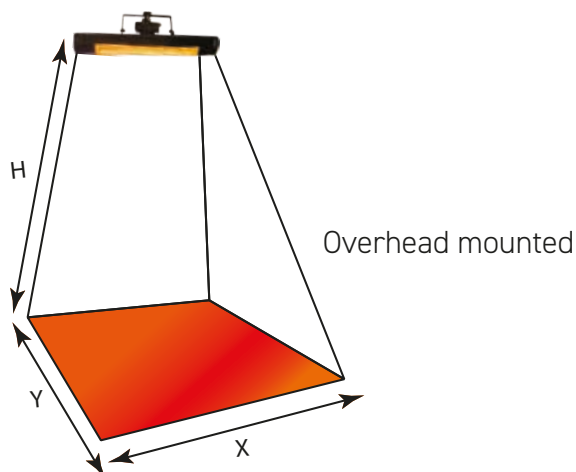
Replacement Lamps

Heater	Lamp Model	kW	Qty Fitted	List Price
HWP2 Standard	RL15CW	1.5	1	£56.00
HWP2 Magic Lamp	RL15MW	1.5	1	£135.00
HWP2-2 Standard	RL20GW	2.0	1	£77.00
HWP2-2 Magic Lamp	RL20MW	2.0	1	£140.00
HWP2-3 Standard	RL15GW/3	1.5	2	£72.00
HWP2-3 Magic Lamp	RL15MW/3	1.5	2	£135.00
HWP2-45 Standard	RL15GW/4	1.5	2 (outside)	£72.00
	RL15GW	1.5	1 (centre)	£72.00
HWP2-45 Magic Lamp	RL15MW/4	1.5	2 (outside)	£135.00
	RL15MW	1.5	1 (centre)	£135.00

Top Golf
Location: Watford, London
Installed: 86 x 2kW Patio Heaters

Bedford Empire Nightclub

Location: Bedford
Installed: 9 x 3kW Patio Heaters

Brewhouse & Kitchen

Location: Cardiff, Wales
Installed: 4 x 2kW Patio Heaters

The Star

Location: Hackney, London
Installed: 7 x 1.5kW Patio Heaters

HN INFRARED QUARTZ HALOGEN HEATERS

1.5kW/2kW

3kW

3kW linear

4.5kW/6kW

Function   Heat people directly not the surrounding air
Heat targets within an otherwise unheated building
Instantly effective – ideal for intermittently used buildings

Applications   Community halls
Churches
Workshops
Packing areas
Distribution centres
Warehouses

Features   Replaceable halogen lamp with 7000 hours average operating life
Wall bracket with 'up and down' and 'side to side' angle adjustment
Can be suspended (optional suspension kit available)
1m power lead (2-core and earth)
Magic Lamp option for reduced light output and zero-glare (M suffix)

Single Lamp Heaters

Model	kW	Finish	Lamp Glow	List Price
HN3-15	1.5	Ivory	Red	£237.00
HN3-15B	1.5	Black	Red	£237.00
HN3-15M	1.5	Ivory	Magic Lamp (zero glare)	£289.00
HN3-15BM	1.5	Black	Magic Lamp (zero glare)	£289.00
HN3-20	2.0	Ivory	Red	£248.00
HN3-20B	2.0	Black	Red	£248.00
HN3-20M	2.0	Ivory	Magic Lamp (zero glare)	£294.00
HN3-20BM	2.0	Black	Magic Lamp (zero glare)	£294.00

Twin Lamp Heaters

Model	kW	Orientation	Finish	Lamp Glow	List Price
HN3-30	3.0	Vertical	Ivory	Red	£380.00
HN3-30B	3.0	Vertical	Black	Red	£380.00
HN3-30M	3.0	Vertical	Ivory	Magic Lamp (zero glare)	£464.00
HN3-30BM	3.0	Vertical	Black	Magic Lamp (zero glare)	£464.00
HN3-30L	3.0	Linear	Ivory	Red	£380.00
HN3-30LB	3.0	Linear	Black	Red	£380.00
HN3-30LM	3.0	Linear	Ivory	Magic Lamp (zero glare)	£464.00
HN3-30LBM	3.0	Linear	Black	Magic Lamp (zero glare)	£464.00

Three Lamp Heaters

Model	kW	Finish	Lamp Glow	List Price
HN3-45	4.5	Ivory	Red	£561.00
HN3-45B	4.5	Black	Red	£561.00
HN3-45M	4.5	Ivory	Magic Lamp (zero glare)	£672.00
HN3-45BM	4.5	Black	Magic Lamp (zero glare)	£672.00
HN3-60	6.0	Ivory	Red	£626.00
HN3-60B	6.0	Black	Red	£626.00
HN3-60M	6.0	Ivory	Magic Lamp (zero glare)	£722.00
HN3-60BM	6.0	Black	Magic Lamp (zero glare)	£722.00

Technical

Lamps	Volts	Dimensions (mm)			Weight (kg)
		H	W	D	
1	230	218	375	100	2.6
2 (vertical)	230	376	375	100	4.6
2 (linear)	230	218	788	100	4.6
3	230/400	536	375	100	6.3

Accessories

	Model	Description	Details	List Price
	HSK	Suspension kit (four hooks and locknuts)	--	£8.50
	CS-4	Switch for 1.5kW, 2kW, 3kW heaters: on/off	Page 124	£53.00
	CS-2	Switch for 3kW vertical heaters: ½ heat/full heat	Page 124	£69.00
	CS-3	Switch for 4.5kW, 6kW heaters: ⅓ heat/ ⅔ heat/full heat	Page 124	£93.00
	VR-2	Dimmer (3kW max)	Page 127	£164.00
	TS-7	Push button timer (6kW max)	Page 122	£157.00
	WH-402	Movement sensor (3kW max)	Page 127	£119.00

For multi-heater installations we recommend our HC control box (see page 92-95)

Replacement Lamps

Model	kW	Glow	List Price
RL15GF	1.5	Red	£70.00
RL15MF	1.5	Magic Lamp (zero glare)	£125.00
RL20GF	2.0	Red	£70.00
RL20MF	2.0	Magic Lamp (zero glare)	£125.00

Required W/m²

	Heavy Work (W/m²)	Light Work (W/m²)	Spot Heating (W/m²)
Highly Insulated	150	200	250
Insulated	175	225	250
Uninsulated	200	250	275
Light cladding	250	300	300
Badly insulated/damp	300	300	300

Area Covered (wall mounted)

kW	H (m)	X (m)	Y (m)	Z (m)	m²
1.5 or 2.0	2.5	3.2	2.6	6.0	11.9
1.5 or 2.0	3.0	3.4	3.6	6.7	18.2
3.0 Vertical	3.0	3.7	3.6	7.0	19.2
3.0 Vertical	3.5	4.0	4.2	7.9	25.0
3.0 Linear	2.5	3.6	2.6	6.4	13.0
3.0 Linear	3.0	3.8	2.6	7.1	19.6
4.5 or 6.0	3.5	4.0	4.2	8.1	25.4
4.5 or 6.0	4.0	4.3	4.5	8.4	28.6

Wall mounted
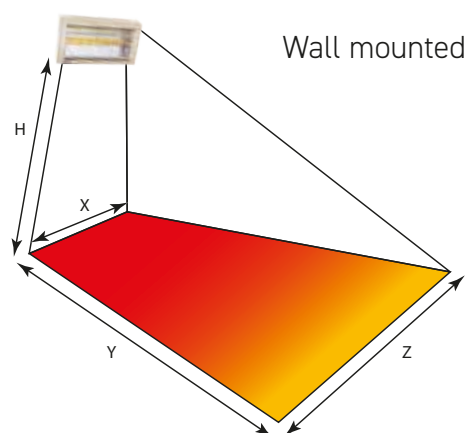
Area Covered (overhead mounted)

kW	H (m)	X (m)	Y (m)	m²
1.5 or 2.0	3.0	3.0	2.0	6.0
1.5 or 2.0	3.5	3.3	2.3	7.6
3.0 Vertical	3.5	3.3	2.6	8.6
3.0 Vertical	4.0	5.0	3.1	15.5
3.0 Linear	3.5	3.8	2.6	9.9
3.0 Linear	4.0	5.5	2.8	15.4
4.5 or 6.0	4.0	5.0	3.4	17.0
4.5 or 6.0	5.0	5.3	3.7	19.6

Overhead mounted

Case studies
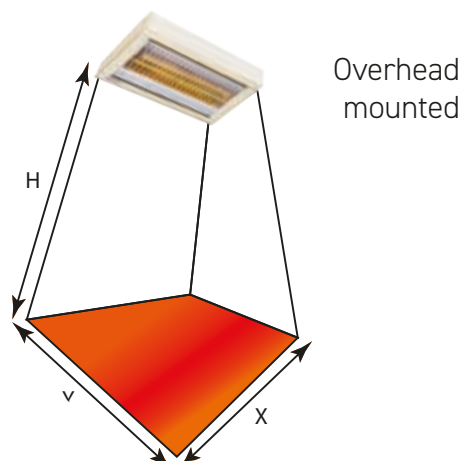
Play Centre

Location: Wirral, Merseyside
Installed: 8 x 4.5 Quartz Halogen Heaters
6 x 3kW Quartz Halogen Heaters

St Peters Church

Location: Pavenham, Bedfordshire
Installed: 12 x 3kW Quartz Halogen Heaters
with Magic Lamps

Private Aircraft Hangar

Location: Norwich, Norfolk

Installed: 10 x 3kW Quartz Halogen Heaters with Magic Lamps
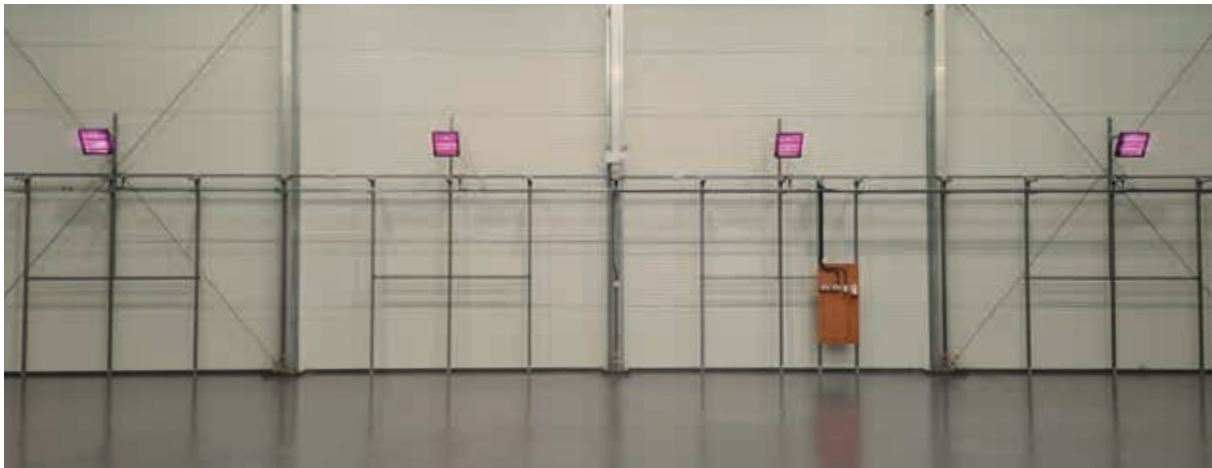
Distribution Centre

Location: Market Harborough, Leicestershire

Installed: 53 x 1.5kW Quartz Halogen Heaters with Magic Lamps

HC INFRARED QUARTZ HALOGEN HEATER CONTROL BOX

Function   Central control for a group of halogen heaters
Easy adjustment of heat intensity

Application   Churches
Community halls
Sports halls
Workshops
Warehouses

Control Panel Features   For use with HN3 halogen heaters (see pages 86-91)
Up to 6 heaters controlled from a single control box
For large installations up to 10 control boxes can be connected using data cable
Frost thermostat can be connected to control box overriding all other controls
Soft start switching prolongs lamp life

Controller Features   Connected to control panel using data cable
Manual selection 3kW heaters - off / half heat / full heat
Manual selection 4.5kW or 6kW heaters – off / ⅓ heat/ ⅔ heat / full heat
Built-in run-down timer (if required) programmable between 5 minutes and two hours activated by remote-mounted push button (HC-B)

Control Boxes

Model	Description	List Price Each
HC2	Control box for up to six 3kW heaters*	£691.00
HC3	Control box for up to four 4.5 or 6kW heaters	£691.00
HC-C1	Controller (see page 126)	£137.00

*Not suitable for linear models

Ancillary System Components

Model	Description	Details	List Price
HC-B	Push Button to activate run-down timer	Page 126	£55.00
FST2-IN	Optional frost thermostat	Page 112	£104.00
DX05	Cat5 cable terminated 5m	-	£8.50
DX10	Cat5 cable terminated 10m	-	£13.50
DX20	Cat5 cable terminated 20m	-	£20.50
JX1	Cat5 Cable Joiner	-	£4.50

Cat5 cable used to connect controller to a control box and to interconnect control boxes

HC-C1
Wall Mounted
Controller

HC2

HC2

Primary Control Box
controlling up to six heaters

Secondary Control Box
each controlling up to six heaters

Optional HC-B Push Button
(activates rundown timer)
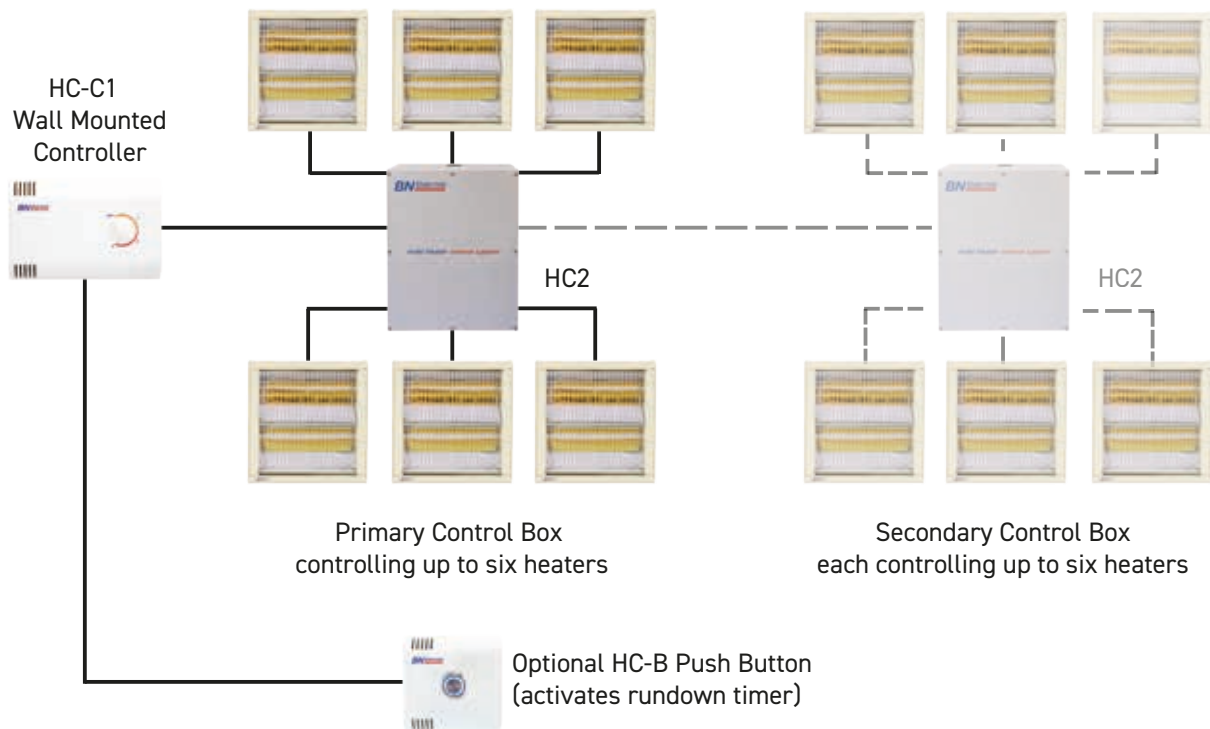
Controlling HN3–30 (3kW) Heaters each with 2 Lamps

Each HC2 control box will control up to six heaters. The HC-C1 controller allows the heaters' lamps to be switched individually meaning that outputs of 1.5kW or 3kW can be selected.

400V 3ph & N supply required.

For larger installations up to 10 control boxes can be connected in a control daisy-chain with each controlling up to six heaters.

Note: this system cannot be used with linear heaters.

HC-C1
Wall Mounted
Controller

HC3

HC3

Primary Control Box
controlling up to four heaters

Secondary Control Box
each controlling up to four heaters

Optional HC-B Push Button
(activates rundown timer)
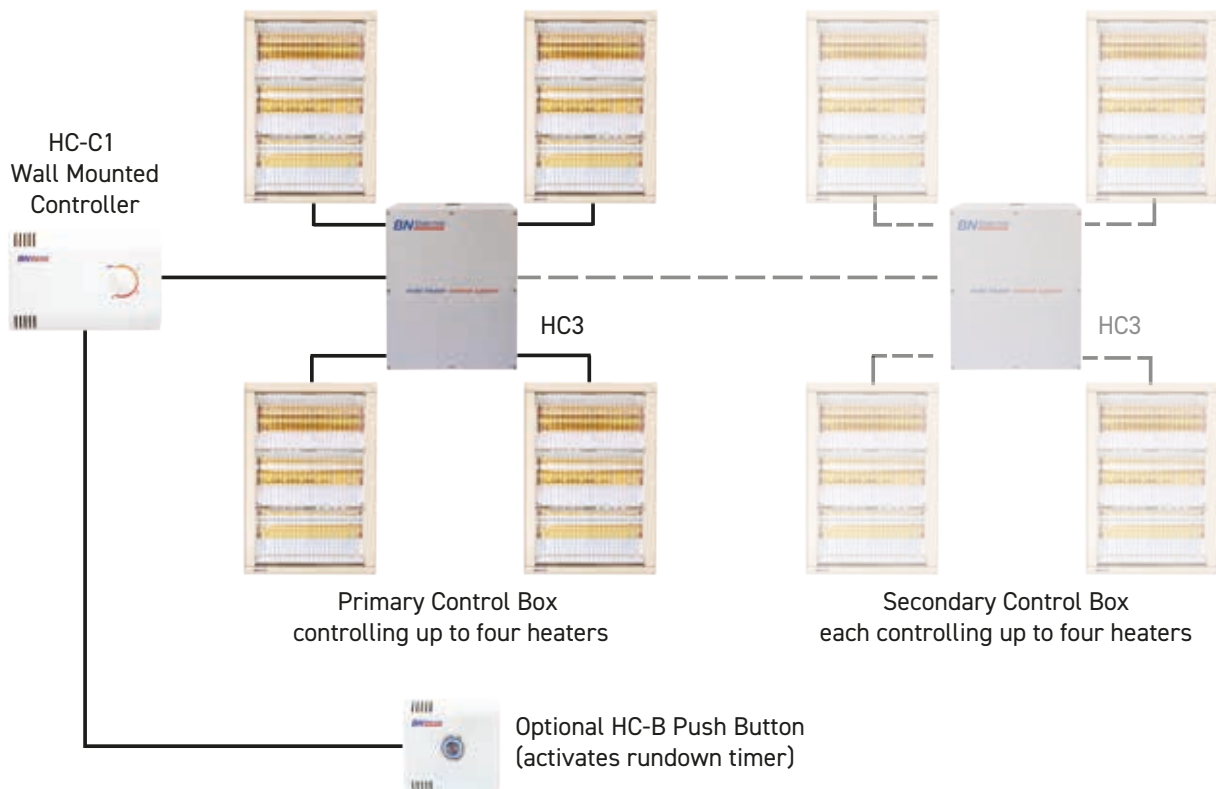
Controlling HN3–45 (4.5kW) Heaters or HN3–60 (6kW) Heaters each with 3 Lamps

Each HC3 control box will control up to four heaters. The HC-C1 controller allows the heaters' lamps to be switched individually meaning that outputs of $\frac{1}{3}$, $\frac{2}{3}$ or full power can be selected.

400V 3ph & N supply required

For larger installations up to 10 control boxes can be connected in a control daisy-chain with each controlling up to four heaters.

CH CERAMIC HEATERS

CH2-15

CH2-15B

CH2-30

CH2-30B

CH2-30L

CH2-30LB

Function	Heat people directly not the surrounding air
	Direct radiant heat without light output

Applications	Community halls
	Churches
	Workshops
	Kennels
	Zoos

Features	Long life 'no glow' ceramic heat emitters
	Wall bracket with 'up and down' and 'side to side' angle adjustment
	Can be suspended (optional suspension kit available)
	1m power lead (2-core and earth)

Heaters

Model	kW	Finish	List Price
CH2-15	1.5	Ivory	£255.00
CH2-15B	1.5	Black	£255.00
CH2-30	3.0	Ivory	£414.00
CH2-30B	3.0	Black	£414.00
CH2-30L	3.0	Ivory	£414.00
CH2-30LB	3.0	Black	£414.00

Technical

Model	kW	Volts	Dimensions (mm)			Weight (kg)
			H	W	D	
CH2-15	1.5	230	218	375	100	3.2
CH2-30	3.0	230	376	375	100	5.7
CH2-30L	3.0	230	218	788	100	5.7

Accessories

	Model	Description	Details	List Price
	HSK	Suspension kit (four hooks and locknuts)	--	£8.50
	VR-2	Dimmer (3kW max)	Page 127	£164.00
	TS-8	Push button timer (7.2kW max)	Page 122	£158.00
	WH-402	Movement sensor (3kW max)	Page 127	£119.00

ESP RADIANT CASSETTES

0.9/1.2kW

1.8/2.4kW

3.0/3.6kW

Function	Energy saving means of heating large commercial spaces
Applications	Community halls
	Sports halls
	Showrooms
	Food halls
	Squash courts
Features	Radiant heat without light output
	Robust steel case with white epoxy finish
	Ceiling mounting brackets supplied as standard
	Can be suspended
	Optional angle adjustable wall brackets

Radiant Cassettes

Model	kW	List Price
ESP2-09	0.9	£362.00
ESP2-12	1.2	£380.00
ESP2-18	1.8	£524.00
ESP2-24	2.4	£550.00
ESP2-30	3.0	£693.00
ESP2-36	3.6	£728.00
ESP2-B (optional wall bracket)		£41.00

Technical

Model	kW	Volts	Dimensions (mm)			Recommended Mounting Height (m)		Weight (kg)
			H	W	D	Min	Max	
ESP2-09	0.9	230	60	1550	150	3.0	4.0	5.8
ESP2-12	1.2	230	60	1550	150	3.0	4.0	5.8
ESP2-18	1.8	230	60	1550	250	3.5	6.0	9.9
ESP2-24	2.4	230	60	1550	250	3.5	6.0	9.9
ESP2-30	3.0	230/400	60	1550	350	3.5	8.0	13.9
ESP2-36	3.6	230/400	60	1550	350	3.5	8.0	13.9

Accessories

	Model	Description	Details	List Price
	RT16	Programmable thermostat 16A	Page 115	£128.00
	RT26	Programmable thermostat 26A	Page 115	£158.00
	WT16	Wi-Fi thermostat 16A (download free app)	Page 116	£187.00
	WT26	Wi-Fi thermostat 26A (download free app)	Page 117	£220.00
	BBS	Optional remote-mounted 'black bulb' temperature sensor for use with RT or WT thermostats	Page 115-117	£65.00
	CON-32	Contactor 32A 3-pole	Page 127	£53.00
	CON-50	Contactor 50A 3-pole	Page 127	£70.00
	CON-80	Contactor 80A 3-pole	Page 127	£157.00
	ENCL-D	Enclosure for CON-32 and CON-50	Page 127	£29.00

For larger installations we recommend our PC control box – see pages 106-109

Case studies

Spencer Squash Club

Location: Wandsworth, London
Installed: 2 x 3.6kW Radiant Cassettes per court

Bedford Timber Supplies

Location: Bedford

Installed: 6 x 3kW Radiant Cassettes

RP RADIANT CEILING PANELS

RP3-03

RP3-06

Function	Energy saving means of heating commercial premises
Applications	Offices
	Trade counters
	Care homes
	Meeting rooms
Features	Radiant heat without light output
	Quick and easy installation into a standard (24mm) suspended ceiling grid
	Bracket provided for easy mounting onto a conventional ceiling
	Attractive white easy-clean finish (RAL9010)
	IP44 rated

Heaters

Model	kW	List Price
RP3-03	0.3	£207.00
RP3-06	0.6	£299.00

Technical

Model	kW	Volts	Dimensions (mm)			Recommended Mounting Height (m)		Weight (kg)
			H	W	D	Min	Max	
RP3-03	0.3	230	25	592	592	2.4	4.0	5.9
RP3-06	0.6	230	25	1192	592	2.4	4.0	11.3

Accessories

	Model	Description	Details	List Price
	RD16	Electronic programmable thermostat 16A (recessed)	Page 114	£58.00
	RT16	Programmable thermostat 16A	Page 115	£128.00
	RT26	Programmable thermostat 26A	Page 115	£158.00
	WD16	Wi-Fi electronic thermostat 16A (recessed – free app)	Page 116	£117.00
	WT16	Wi-Fi thermostat 16A (download free app)	Page 116	£187.00
	WT26	Wi-Fi thermostat 26A (download free app)	Page 117	£220.00
	CXS	Optional remote-mounted temperature sensor for use with RT or WT thermostats	Page 130	£36.00
	RST2-IN	Adjustable room thermostat 20A	Page 112	£114.00
	RST-TP	Tamperproof thermostat 20A	Page 112	£122.00

Case studies

Swimming Pool Changing Rooms

Location: Guildford, Surrey
Installed: 6 x 300W Radiant Ceiling Panels
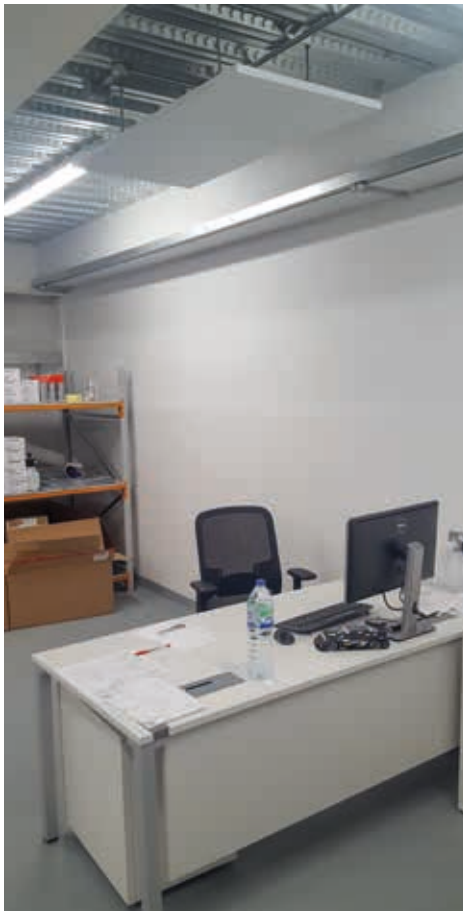
Aston Martin
Location: Bristol
Installed: 4 x 600W Radiant Ceiling Panels

PC ▷ LONGWAVE RADIANT HEATER CONTROL BOX

Function	Central control for a group of radiant cassettes or radiant ceiling panels
Application	Offices
	Showrooms
	Community halls
	Sports halls
	Food halls
	Offices
Control Panel Features	For use with ESP2 Radiant Cassettes and RP3 Radiant Ceiling Panels (see pages 98-101 and 102-105)
	Up to 24 heaters controlled from a single control box (depending on heater output)
	For large installations up to 10 control boxes can be connected using data cable
	Can receive a 230V signal directly from a BMS (PC-C1 controller not required)
	Robust steel enclosure
Controller Features	Connected to control box using data cable
	Integral thermostat
	Integral temperature sensor (can be used with remote-mounted sensor when required)
	7-day programming (up to 6 events per day)
	Optimum start (optional)
	Adaptive stop – reduces temperature 'over/under shoot' improving both comfort and economy (optional)
	Button lock to prevent unauthorised adjustment (optional)

PC-C1

PC4

PC4

Typical control system –
two control boxes, each
switching 6 radiant cassettes
and a single programmable
controller
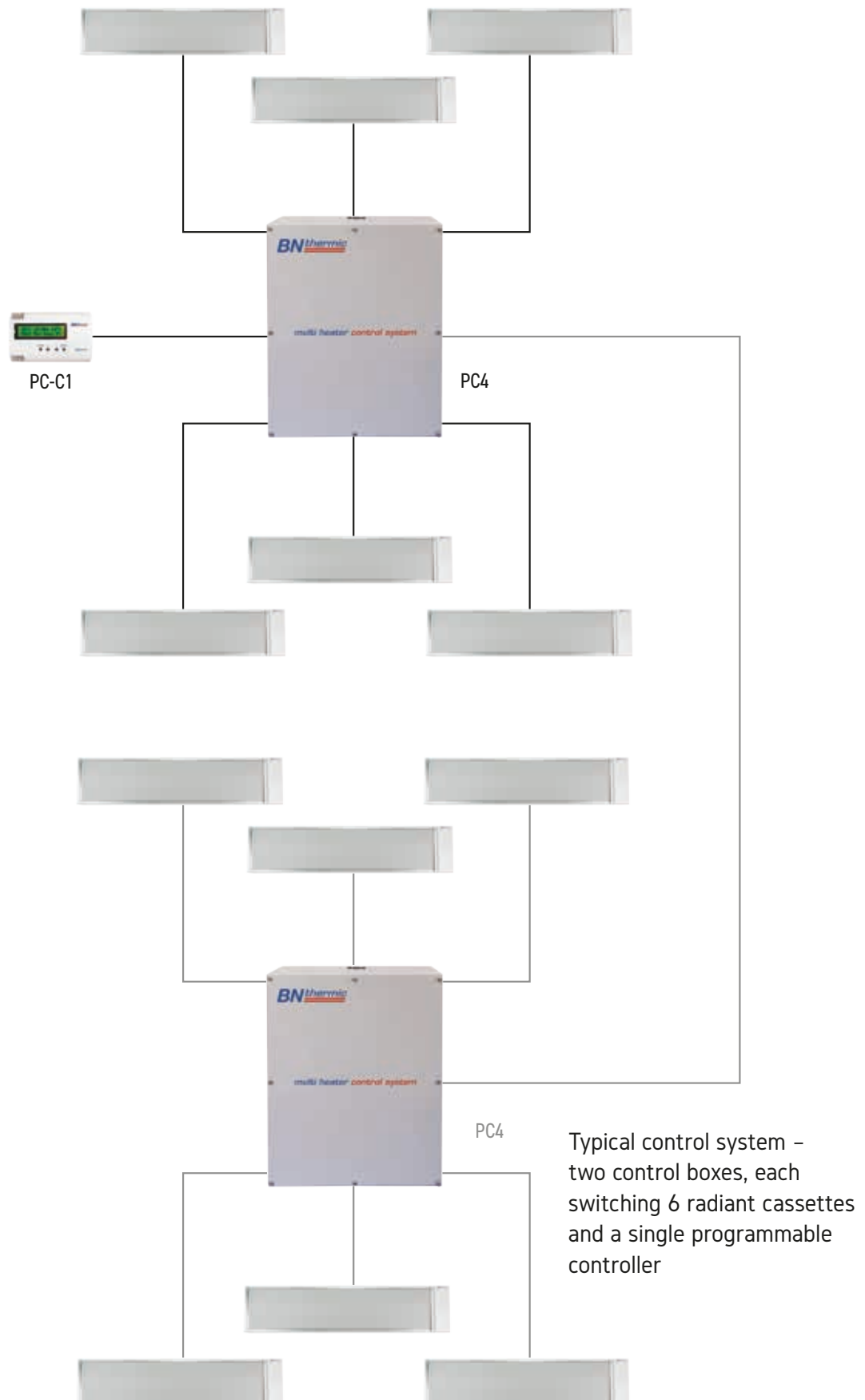
Control Boxes

Model	Description	List Price Each
PC1	Control Box for 230V 1ph System	£695.00
PC2	Control Box for 230V 1ph System	£695.00
PC3	Control Box for 400V 3ph System	£695.00
PC4	Control Box for 400V 3ph System	£695.00
PC5	Control Box for 400V 3ph System	£695.00
PC-C1	Programmable Controller (see page 126)	£225.00

Control Box Selection

Control Box	Voltage	Max Quantity of Heaters	Heater Model	kW per Heater
PC1	230V 1ph	6	ESP2-12	1.2kW
	230V 1ph	6	ESP2-09	0.9kW
PC2	230V 1ph	12	RP3-06	0.6kW
	230V 1ph	24	RP3-03	0.3kW
PC3	400V 3ph & N	36	RP3-06	0.6kW
	400V 3ph & N	36	RP3-03	0.3kW
	400V 3ph & N	12	ESP2-18	1.8kW
	400V 3ph & N	12	ESP2-12	1.2kW
	400V 3ph & N	12	ESP2-09	0.9kW
PC4	400V 3ph & N	6	ESP2-24	2.4kW
	400V 3ph & N	6	ESP2-30	3.0kW
PC5	400V 3ph & N	6	ESP2-36	3.6kW

Ancillary System Components

	Model	Description	List Price
	CXS	Optional remote-mounted temperature sensor	£36.00
	DX05	Cat5 cable terminated 5m	£8.50
	DX10	Cat5 cable terminated 10m	£13.50
	DX20	Cat5 cable terminated 20m	£20.50
	JX1	Cat5 Cable Joiner	£4.50

Cat5 cable used to connect controller to a control box and to interconnect control boxes

B16C — Basic Underfloor Heating Thermostat

Application	Underfloor heating
Adjustable Range	+5°C to +30°C
Mounting	Recessed into single-gang back box
Programmable Periods	5+2 or 7 days/4 events per day
Sensors	Integral air sensor with floor sensor supplied as standard
Switching Capacity	16A 230V
Voltage Supply	230V
Contacts	Single pole single throw
Dimensions	86mm (H) x 86mm (W) x 15mm (D) – when installed
Ingress protection	IP20
Special features	Optional open window detection
	Can be configured for 'air and floor sensor' or for 'floor sensor only'
	Back-lit screen
List Price	**£61.00**

T16C – Touchscreen Underfloor Heating Thermostat

Application	Underfloor heating
Adjustable Range	+5°C to +34°C
Mounting	Recessed into a single-gang back box
Programming Periods	7-day with no restriction of number of events per day
Sensors	Integral air sensor with floor sensor supplied as standard
Switching capacity	16A 230V
Voltage supply	230V
Contacts	Single pole, single throw
Dimensions	90mm (H) x 90mm (W) x 18mm (D) - when installed
Ingress protection	IP21
Special Features	Available in white, black or silver
	Can be configured for 'air and floor sensor' or 'floor sensor only'
	Screen colour can be changed
	Built-in energy use monitor
	Can be used with remote, wall mounted air sensor model T16R (IP65)
	Optional optimum start
	Optional open window detection
List Prices	**T16CW (white): £158.00**
	T16CB (black): £169.00
	T16CS (silver): £169.00
	T16R (optional remote air sensor): £39.00

T16R optional
IP65 air sensor

W16C — Touchscreen/Wi-Fi Thermostat

Application	Underfloor heating
Adjustable Range	+5°C to +30°C
Mounting	Recessed into a single-gang box
Programmable Periods	5+2, 6+1 or 7 days/6 events per day
Sensors	Integral air sensor with floor sensor supplied as standard
Switching Capacity	16A 230V
Voltage Supply	230V
Contacts	Single pole single throw
Dimensions	86mm (H) x 86mm (W) x 16mm (D) when recessed
Ingress Protection	IP20
Special Features	Free app for iOS or Android phone
	Can be used without app
	Back-lit screen
	Optional open window detection
List Prices	W16CW (white): £120.00
	W16CB (black): £120.00

RAA21 — Basic Thermostat with frost setting

Application	Commercial and industrial heating
Adjustable range	+8°C to +30°C
Frost setting	+8°C
Mounting	Surface
Switching capacity	6A 230V
Voltage supply	230V
Contact	Single pole, double throw
Dimensions	96mm x 97mm x 35mm
Ingress protection	IP30
Special feature	Adjustable range can be reduced using setpoint limiters under the cover
List Price	£38.00

RST2-IN – Standard Room Thermostat

Application	Commercial heating
Adjustable Range	+5°C to +30°C
Mounting	Surface
Switching capacity	20A 230V
Voltage supply	230V
Contacts	Single pole, single throw
Dimensions	85mm x 85mm x 35mm
Ingress protection	IP30
Special features	Heat anticipator improves control accuracy
Price	£114.00

RST-TP – Tamperproof Thermostat

Application	Commercial heating
Adjustable Range	+5°C to +30°C
Mounting	Surface
Switching capacity	20A 230V
Voltage supply	230V
Contacts	Single pole, single throw
Dimensions	85mm x 85mm x 35mm
Ingress protection	IP30
Special features	Concealed temperature adjustment
	Optional 'shear-off' cover fixing screws
	Heat anticipator improves control accuracy
List price	£122.00

FST2-IN – Frost Thermostat (indoor)

Application	Frost protection
Adjustable Range	-15°C to +10°C
Mounting	Surface
Switching capacity	20A 230V
Voltage supply	230V
Contacts	Single pole, single throw
Dimensions	85mm x 85mm x 35mm
Ingress protection	IP30
Special features	Heat anticipator improves control accuracy
List price	£104.00

FST2–EX – Frost Thermostat (outdoor)

Application	Frost protection
Adjustable Range	-15°C to +10°C
Mounting	Surface
Switching capacity	20A 230V
Voltage supply	230V
Contacts	Single pole, single throw
Dimensions	125mm x 125mm x 75mm
Ingress protection	IP66
Special features	Heat anticipator improves control accuracy Supplied with 1 x M20 cable gland
List Price	£173.00

PROSTAT2 – Programmable Thermostat

Application	Programmable temperature control in commercial premises
Programming	7 day or 5 + 2 days
Adjustable Range	+5°C to +35°C
Mounting	Surface
Switching capacity	6A 230V
Voltage supply	2 x AA batteries (supplied)
Contacts	Single pole, change over
Dimensions	127mm x 81mm x 28mm
Ingress protection	IP30
Special features	Up to 6 programmable events per day
	Temporary temperature override until next pre-set period
	Temperature lock – permanent temperature override until reset
	Delayed start, optimum start, optimum stop options
List Price	£108.00

RD16 – Basic Programmable Thermostat (recessed)

Application	Commercial and industrial space heating
Adjustable range	+5°C to +30°C
Mounting	Recessed into a single-gang back box
Programmable periods	5+2 or 7 days/4 events per day
Sensor	Integral air sensor (optional remote sensors available)
Switching capacity	16A 230V
Voltage supply	230V
Contacts	Single pole single throw
Dimensions	86mm (H) x 86mm (W) x 15mm (D) – when installed
Ingress protection	IP20
Special features	Optional open window detection
List Price	RD16 Thermostat: £58.00
	Optional Remote Sensors
	CXS Air Sensor: £36.00
	CXSIP Air Sensor IP65: £39.00
	BBS Black Bulb Sensor: £65.00
	BBSIP Black Bulb Sensor IP65: £67.00

CXS

BBS

CXSIP

BBSIP

RT16 Programmable Wall–Mounted Thermostat 16A

Application	Commercial or industrial space heating
Adjustable Range	+1°C to +45°C (default +5°C to +30°C)
Mounting	Surface mount
Programmable Periods	5+2 or 7 days/4 events per day
Sensors	Integral air sensor (can be used with remote-mounted temperature sensor)
Switching Capacity	16A 230V
Voltage Supply	230V
Contacts	Single pole single throw
Dimensions	120mm (H) x 94mm (W) x 57mm (D)
Case	Die-cast aluminium
Ingress protection	IP20
Special features	Optional open window detection
	Can be used with remote, wall-mounted sensor
	Supplied with 2 x M20 cable glands
List Price	RT16 Thermostat: £128.00
	Optional Remote Sensors
	CXS Air Sensor: £36.00
	CXSIP Air Sensor IP65: £39.00
	BBS Black Bulb Sensor: £65.00
	BBSIP Black Bulb Sensor IP65: £67.00

CXS BBS

CXSIP BBSIP

RT26 Programmable Wall–Mounted Thermostat 26A

Application	Commercial or industrial space heating
Adjustable Range	+1°C to +45°C (default +5°C to +30°C)
Mounting	Surface mount
Programmable Periods	5+2 or 7 days/4 events per day
Sensors	Integral air sensor (can be used with remote-mounted temperature sensor)
Switching Capacity	26A 230V
Voltage Supply	230V
Contacts	Single pole single throw
Dimensions	125mm x 125mm x 90mm
Case	ABS Plastic
Ingress Protection	IP20
Special features	Optional open window detection
	Can be used with a remote, wall-mounted sensor
	Supplied with 2 x M20 cable glands
List Price	RT26 Thermostat: £158.00
	Optional Remote Sensors
	CXS Air Sensor: £36.00
	CXSIP Air Sensor IP65: £39.00
	BBS Black Bulb Sensor: £65.00
	BBSIP Black Bulb Sensor IP65: £67.00

CXS BBS

CXSIP BBSIP

WD16 – Touchscreen/Wi–Fi Thermostat (recessed)

Application	Commercial and industrial space heating
Adjustable range	+5°C to +30°C
Mounting	Recessed into a single-gang back box
Programmable periods	5+2 or 7 days/6 events per day
Sensor	Integral air sensor (optional remote sensors available)
Switching capacity	16A 230V
Voltage supply	230V
Contacts	Single pole single throw
Dimensions	86mm (H) x 86mm (W) x 16mm (D) – when installed
Ingress protection	IP20
Special features	Free app for iOS or Android phone
	Can be used without app
	Back-lit screen
	Optional open window detection
	Supplied with 2 x M20 cable glands
List Price	WD16 Thermostat: £117.00
	Optional Remote Sensors
	CXS Air Sensor: £36.00
	CXSIP Air Sensor IP65: £39.00
	BBS Black Bulb Sensor: £65.00
	BBSIP Black Bulb Sensor IP65: £67.00

CXS

BBS

CXSIP

BBSIP

Download on the App Store

GET IT ON Google Play

WT16 – Touchscreen/Wi–Fi Thermostat 16A

Application	Commercial and industrial space heating
Adjustable range	+5°C to +30°C
Mounting	Surface mount
Programmable periods	5+2 or 7 days/6 events per day
Sensor	Integral air sensor (optional remote sensors available)
Switching capacity	16A 230V
Voltage supply	230V
Contacts	Single pole single throw
Dimensions	120mm (H) x 94mm (W) x 57mm (D)
Case material	Die-cast aluminium
Ingress protection	IP20
Special features	Free app for iOS or Android phone
	Can be used without app
	Back-lit screen
	Optional open window detection
	Supplied with 2 x M20 cable glands
List price	WT16 Thermostat: £187.00
	Optional Remote Sensors
	CXS Air Sensor: £36.00
	CXSIP Air Sensor IP65: £39.00
	BBS Black Bulb Sensor: £65.00
	BBSIP Black Bulb Sensor IP65: £67.00

CXS

BBS

CXSIP

BBSIP

Download on the App Store

GET IT ON Google Play

WT26 — Touchscreen/Wi–Fi Thermostat 26A

CXS   BBS

CXSIP   BBSIP

Application	Commercial and industrial space heating
Adjustable range	+5°C to +30°C
Mounting	Surface mount
Programmable periods	5+2 or 7 days/6 events per day
Sensor	Integral air sensor (optional remote sensors available)
Switching capacity	26A 230V
Voltage supply	230V
Contacts	Single pole single throw
Dimensions	125mm (H) x 125mm (W) x 90mm (D)
Case material	ABS plastic
Ingress protection	IP20
Special features	Free app for iOS or Android phone
	Can be used without app
	Back-lit screen
	Optional open window detection
	Supplied with 2 x M20 cable glands
List price	WT26 Thermostat: £220.00
	Optional Remote Sensors
	CXS Air Sensor: £36.00
	CXSIP Air Sensor IP65: £39.00
	BBS Black Bulb Sensor: £65.00
	BBSIP Black Bulb Sensor IP65: £67.00

RST–HT High Temperature Room Thermostat

Application	Commercial and industrial heater control
Adjustable Range	+5˚C to +50˚C
Mounting	Surface mount
Switching Capacity	16A 230V
Voltage Supply	None required
Contacts	Single pole, single throw
Dimensions	125mm x 125mm x 75mm
Ingress Protection	IP66
Special features	Supplied with 2 x M20 cable glands
List Price	£140.00

PROSTAT3 Tamper–Resistant Industrial Thermostat

PROSTAT3

CXS

BBS

CXSIP

BBSIP

Application	Industrial heater control
Adjustable Range	0°C to +30°C
Mounting	Surface
Switching Capacity	32A 230V
Voltage Supply	230V
Contacts	Single pole, single throw
Dimensions (H x W x D)	140mm x 124mm x 75mm
Ingress Protection	IP65
Sensor	Integral 'black bulb'
Special Features	Can be use with remote-mounted temperature sensor BBS (black bulb standard) BBSIP (black bulb IP65) or CXS (standard air sensor)
	Optional open window detection
	Supplied with 2 x M20 cable glands
List Price	PROSTAT3 Thermostat: £187.00
	Optional Remote Sensors
	CXS Air Sensor: £36.00
	CXSIP Air Sensor IP65: £39.00
	BBS Black Bulb Sensor: £65.00
	BBSIP Black Bulb Sensor IP65: £67.00

PROSTAT4 Two–Temperature Tamper–Resistant Industrial Thermostat

PROSTAT4

CXS   BBS

CXSIP   BBSIP

Application	Industrial heater control where two temperature settings are required (e.g. comfort and frost-protection settings)
Adjustable Range - Setting One (Default)	0°C to +20°C
Adjustable Range – Setting Two	10°C to +30°C
Switching Capacity	32A 230V
Voltage Supply	230V
Contacts	Single pole, single throw
Dimensions (H x W x D)	140mm x 124mm x 78mm
Ingress Protection	IP65
Sensor	Integral 'black bulb'
Three methods to select Temperature Setting Two	1- Push button on front face of thermostat activates built-in run-down timer (0-7.5 hours)
	2- Remote-mounted push button (CS-5) activates built-in run-down timer (0-7.5 hours)
	3- Remote-mounted volt-free programmable timer (PROTIM-7)
Built-in Run-Down Timer Programmable Delay	Up to 7.5 hours
Special Features	Front panel light indicates when Temperature Setting Two selected
	Can be use with remote-mounted temperature sensor BBS (black bulb standard) BBSIP (black bulb IP65) or CXS (standard air sensor)
	Optional open window detection
	Supplied with 2 x M20 cable glands
List Price	PROSTAT4 Thermostat: £198.00
	Optional Remote Sensors
	CXS Air Sensor: £36.00
	CXSIP Air Sensor IP65: £39.00
	BBS Black Bulb Sensor: £65.00
	BBSIP Black Bulb Sensor IP65: £67.00

THT Weatherproof Capillary Thermostat
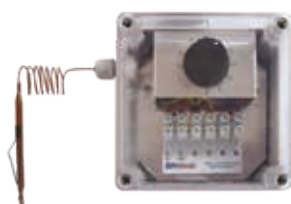
Application	Control for pipe trace heating
Adjustable Range	+5°C to +50°C
Mounting	Surface mount or use THB pipe bracket (see page 15)
Switching Capacity	16A 230V
Voltage Supply	None required
Contacts	Single pole, single throw
Dimensions	125mm x 125mm x 75mm
Capillary Length	600mm approx. (including bulb)
Ingress Protection	IP66
Special features	Supplied with 2 x M20 cable glands
List Price	£142.00

THTEX ATEX Weatherproof Capillary Thermostat

Application	Control for pipe trace heating in hazardous areas
Equipment Protection Level	Gb (gas)
Zones	Zones 1 and 2 (gas)
Group	IIC
Temperature Class	T6
Adjustable Range	0°C to +40°C
Mounting	Surface mount or use THB pipe bracket (see page 15)
Switching Capacity	16A 230V
Voltage Supply	None required
Contacts	Single pole, double throw (changeover)
Dimensions	130mm x 130mm x 90mm
Capillary Length	1600mm approx. (including bulb)
Cable Entries	2 x M20
Ingress Protection	IP66
List Price	£837.00

TXST-01 – ATEX Thermostat (hazardous gases only)

Approval	ATEX
Equipment Protection Level	Gb (gas)
Zones	Zones 1 and 2 (gas)
Group	Group IIC
Temperature Class	T6
Adjustable Range	0 to +40°C
Differential	4°C (+/- 2°C)
Temperature Sensing	Bulb and Capillary (stainless steel)
Cable Entries	2 x M20
Enclosure Material	Cast aluminium with black anodised finish
Mounting plate material	Stainless steel
Switching Capacity	16A 230V resistive load
Contacts	Single pole double throw (changeover)
Ingress protection	IP66
Dimensions	270mm (w) x 155mm (h) x 91mm (d)
Weight	5kg
List Price	£931.00

TXST-03 – ATEX Thermostat (hazardous gases and dusts)

Approval	ATEX
Equipment Protection Level	Gb (gas) Db (dust)
Zones	Zones 1 and 2 (gas)
	Zones 21 and 22 (dust)
Group	Group IIC (gas)
	Group IIIC (dust)
Temperature Class	T6
Adjustable Range	-20 to +40°C
Temperature Sensing	Stainless steel 316Ti capillary
Cable Entries	2 x M20
Certified Cable Glands	M20 x 1.5 with clamping range Ø 6-13mm
	M20 x 1.5 with clamping range Ø 7-17mm
Enclosure Material	Black polyester
Switching Capacity	16A 230V resistive load (break on rise/heating)
	6A 230V resistive load (make on rise/cooling)
Contacts	Single pole double throw (changeover)
Ingress protection	IP65
Dimensions	106mm (w) x 200mm (h) x 90mm (d)
Weight	1.2kg
Special Feature	Viewing window to check set-point
List price	£1960.00

TS-7 – Soft Start Push Button Timer — 6kW

Application	Controlling halogen heaters (including patio heaters)
Mounting	Surface
Time delay	5 minutes to 90 minutes
Switching capacity	6kW 230V (250W minimum)
Voltage supply	230V
Contacts	Single pole, single throw
Dimensions	124mm x 124mm x 78mm
Ingress protection	IP65
Special features	Constant light indicates 'heater on'
	Flashing light indicates last minute of operation
	Can be used with our PROTIM-7 timer or a volt free thermostat such as our PROSTAT2
	Soft start switching prolongs halogen lamp life
	Supplied with 2 x M20 cable glands
List price	£157.00

TS-8 – Push Button Timer – 7.2kW

Application	Controlling electric heaters including ceramic heaters, fan heaters
	Ideally suited for use with a contactor
	Not suitable for direct switching of halogen heater (i.e. only via contactor)
Mounting	Surface
Time Delay	5 minutes to 90 minutes
Switching Capacity	7.2kW 230V (no minimum)
Voltage Supply	230V
Contacts	Single pole, single throw
Dimensions	124mm x 124mm x 78mm
Ingress protection	IP65
Special features	Constant light indicates 'heater on'
	Flashing light indicates last minute of operation
	Can be used with our PROTIM-7 timer or a volt-free thermostat such as our PROSTAT2
	Supplied with 2 x M20 cable glands
List price	£158.00

PROTIM-7 – Programmable Timer

Application	Ideal for use with a variety of commercial and industrial heating schemes
Programming	7day, 5 + 2 days or 24hour
Mounting	Surface
Maximum events per day	4
Switching Capacity	13A 230V (when switching halogen heaters this timer can be used in conjunction with our SSR soft start relay – see page 128)
Voltage Supply	230V
Dimensions	90 x 115 x 57mm
Ingress Protection	IP30
Special Features	Advance to next programme
	Boost (select 1 hour or 2 hours)
	Override – permanently on or permanently off
	Automatic summer update
	Battery back up
	Tough aluminium case
List price	£162.00

CS-7 – Three Gang Switch for fan heater control

For use with	800 Series
	SCHG
	RH
	SMH
	CA
Settings	On/off/high heat/low heat/fan only (summer use)
Voltage supply	230V
Mounting	Surface
Dimensions	148 x 88 x 45mm
Ingress protection	IP30
List price	£87.00

CS-2 – Two Gang Switch for halogen or ceramic heater control

For use with	HN3-30 and CH2-30 (EXCEPT LINEAR MODELS)
Settings	Full heat / ½ heat
Voltage supply	230V
Mounting	Surface
Dimensions	85 x 85 x 48mm
Ingress protection	IP30
List price	£69.00

CS-3 – Three Gang Switch for halogen heater control

For use with	HN3-45 and HN3-60
Settings	Full heat / ⅔ heat / ⅓ heat
Voltage supply	230V
Mounting	Surface
Dimensions	146 x 85 x 48mm
Ingress protection	IP30
List price	£93.00

CS-4 – Single Gang Switch for halogen or ceramic heater control

For use with	HN3-15, HN3-20, HN3-30, CH2-15, CH2-30 (4 kW MAX)
Settings	On/off
Voltage supply	230V
Mounting	Surface
Dimensions	85 x 85 x 48mm
Ingress protection	IP30
List price	£53.00

CS-5 – Push Button

For use with	SSR soft start relay (see page 128)
Function	Triggers SSR's built-in run-down timer
Voltage supply	230V
Mounting	Surface
Dimensions	85 x 85 x 48mm
Ingress protection	IP30
List price	£53.00

CS-6 – Six Gang Switch for multiple halogen or ceramic heater control

For use with	6 x HN3-15 or CH2-15 (settings: on/off) 6 x HN3-20 (settings on/off) 3 x HN3-30 or CH2-30 EXCEPT LINEAR MODELS (settings: 1.5kW/3kW/off) 2 x HN3-45 (settings: 1.5kW/3kW/4.5kW/off) 2 x HN3-60 (settings: 2kW/4kW/6kW/off)
Voltage supply	230V
Mounting	Surface
Dimensions	146mm x 146mm x 48mm
Ingress protection	IP30
Special features	A full set of adhesive labels supplied for all above options Individual switches selected to withstand halogen lamp inrush
List price	£141.00

OUH2–S Switch for OUH2 industrial fan heater control

For use with	Any heater or group of heaters from the OUH2 range
Settings	On/off/fan only (summer use)
Voltage supply	230V
Mounting	Remote surface mounting or mounted onto an OUH2 heater
Dimensions	85 x 85 x 48mm
Ingress protection	IP30
List Price	£75.00

HC–C1 Controller

Description	Manual controller for use with HC2 and HC3 control boxes
Settings (when used with HC2 control panel)	On /off/ ½ heat / full heat
	All heaters in a control group will function identically
Settings (when used with HC3 control panel)	On / off / ⅓ heat/ ⅔ heat/ full heat
	All heaters in a control group will function identically
Timer	Run-down timer programmable between 5 minutes and 2 hours
	Activated by optional HC-B push button
Supply	Separate voltage supply not required - supply provided by the control box
Dimensions	120mm x 80mm x 40mm
List Price	£137.00

HC–B Push Button

Description	Push button for use with HC-C1 controller
Function	Activates controller's run-down timer
Supply	Separate voltage supply not required
	Supply provided by the controller
Dimensions	80mm x 80mm x 34mm
Features	Connection to controller via 150mm long pre-wired cable with 4-way plug
	Constant light indicates 'heaters on'
	Flashing light indicates last minute of operation
List Price	£55.00

PC–C1 Controller

Description	Programmable controller for use with PC control boxes
Adjustable range	+5°C to +30°C
Programmable periods	5+2 or 7 days/6 events per day
Supply	Separate voltage supply not required - supply provided by the control box
Dimensions	120mm x 80mm x 40mm
Special features	Optional adaptive start
	Optional adaptive stop
	Optional screen locks
List Price	PC-C1 controller: £225.00
	CXS optional remote sensor: £36.00
	CXSIP optional remote sensor IP65: £39.00

CXS/CXSIP

WH–402 – Movement Sensor

Application	Controlling halogen heaters (including patio heaters) and ceramic heaters
Mounting	Surface
Switching capacity	16A 230V
Voltage supply	230V
Sensing range	12m/180° (both distance and angle can be reduced)
Time delay	5 seconds to 18 minutes (adjustable)
Dimensions	65mm x 83mm x 115mm
Ingress protection	IP55
List price	**£119.00**

VR–2 – Dimmer

Application	Controlling halogen heaters (including patio heaters) and ceramic heaters
Mounting	Surface
Output adjustment	30% to 100%
Switching capacity	13A 230V (halogen heaters up to 3kW)
Voltage supply	230V
Contacts	Single pole, single throw
Dimensions	115mm x 90mm x 58m
Ingress protection	IP55
Special features	Definite click to off
List price	**£164.00**

Contactors

CON-32

Model	Poles	Amps per Pole	Max kW per Pole @230V	List price
CON-32	3	32	7	£53.00
CON-50	3	50	11.5	£70.00
CON-80	3	80	18	£157.00
ENCL-D	Enclosure for CON-32 and CON-50: 175mm x 125mm x 175mm high			£29.00

Enclosure comes complete with DIN rail for quick fitting of contactor.
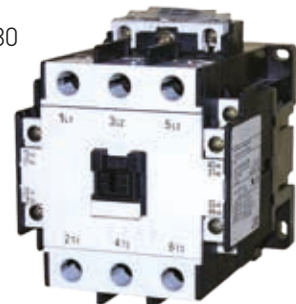
ENCL-D Enclosure

CON-50

CON-80

SSR – Soft Start Relay

Application	Recommended for switching halogen heaters, including patio heaters, rather than a conventional contactor. Also suitable for ceramic heaters
Mounting	Surface
Switching capacity	6kW 230V (250W minimum)
Voltage supply	230V
Contacts	Single pole, single throw
Integral Timer	Optional feature – time delay 5 to 90 minutes
Dimensions	124mm x 124mm x 78mm
Ingress protection	IP66
Use with	CS-4 for manual on/off (see page 124) CS-5 to trigger integral timer (see page 125) PROTIM-7 for programmable control (see page 123) PROSTAT2 for programmable thermostatic control ONLY USE WITH ZERO VOLT DEVICES
Special features	Soft start switching prolongs halogen lamp life
	Reduced strain on MCB Supplied with 2 x M20 cable glands
List price	£161.00

RB26 Relay Box

Application	Quiet switching of loads up to 6kW 230V Ideal for underfloor heating
Mounting	Surface
Switching Capacity	26A
Voltage Supply	230V
Dimensions	124mm x 124mm x 78mm
Ingress Protection	IP66
Special features	Much quieter than the equivalent contactor Internal 1A fuse to protect thermostat/control circuit Supplied with 2 x M20 cable glands Up to 6 relay boxes can be linked
List price	£86.00

DSU–R Fan Speed Regulator

Application	Controlling BN Thermic DSU2 Destratification Unit
Voltage supply	230V
Mounting	Surface
Maximum load	2.5A (one regulator per unit)
Adjustment	30% to 100%
Dimensions	124mm x 124mm x 96mm (including knob)
Special features	Click to off Supplied with 2 x M20 cable glands
List price	£149.00

VI Interface

Function	Converts a 230V signal to a volt-free signal
Typical Applications	Allows a variety of control devices to be integrated into SystemX heating schemes
	Allows a movement sensor such as the WH-402 to switch an SSR soft start relay
Mounting	Surface
Dimensions	80mm x 80mm x 34mm
List price	£54.00

CX1 – Controller with thermostat

CX1
with thermostat

For use with	All heaters in System X range in any sequence
Maximum no. of heaters controlled	12
Thermostat range	5° to 30°C
Settings	on/off/high heat/low heat/fan only (summer use)
Connection to first heater	Cat5 cable
Mounting	Surface
Dimensions	120mm x 80 x 40mm
Special Feature	Open window detection
List price	£128.00

CX2 – Controller with tamper-resistant thermostat

CX2
with tamper
resistant thermostat

As CX1 except	Thermostat is tamper-resistant
Special Feature	Open window detection
List price	£131.00

CX3 – Controller without thermostat

CX3
without thermostat

As CX1 except	Without built-in thermostat or open window detection
List price	£130.00

CX6 – Programmable Controller

CX6
Programmable
Controller

As CX1 except	7 day or 5 + 2 days programming
	Up to 6 programmable events per day
	Temporary temperature override until next pre-set period
	Temporary lock – permanent temperature override until reset
	Optimum start for enhanced economy (user selectable)
	Button lock to prevent unauthorised adjustment
	Back light (switches off automatically after programming or adjustment)
List price	£226.00
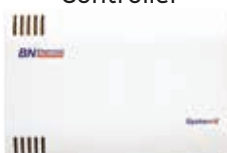
CX–BMS – Connects SystemX to a BMS

CX-BMS
Module

As CX1 except	Without built-in thermostat or open-window detection
	Switches heaters on and off as directed by signal from BMS
	Requires volt-free signal (for a 230V signal a VI interface is required – see page 129)
List price	£123.00

CXS – Optional Remote Sensor with IP rated option

CXS/CXSIP
optional remote sensor
for CX1, CX2 or CX6

Can be used with	CX1, CX2, CX6 and other BN Thermic control systems
Mounting	Surface
Dimensions	80mm x 80 x 34mm
Ingress protection	Standard model: IP 20 CXSIP: IP65
List price	CXS: £36.00 CXSIP: £39.00

BN *thermic* **can help you select the right energy saving control system for any size project**

UK MANUFACTURING

NEXT DAY DELIVERY

FREE DESIGN SERVICE

BN Thermic Ltd, 34 Stephenson Way, Crawley, West Sussex RH10 1TN

Tel 01293 547361
Fax 01293 531432

Email sales@bnthermic.co.uk
Web www.bnthermic.co.uk

Find us on